

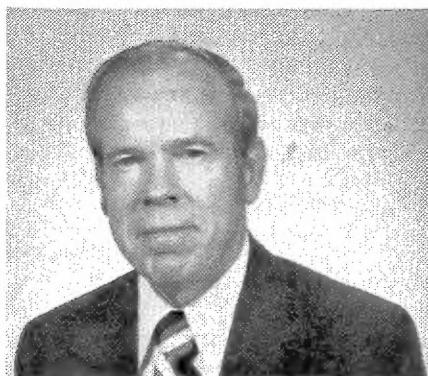
CONVAIR Weekly Log

January 9, 1984

Published by the Convair Division of General Dynamics



Happy New Year... welcome back... think quality. The Employee Suggestions people, with the help of a lot of people from Quality Assurance and Planning, greeted returning employees at plant gates last Tuesday morning. It's all part of the Employee Suggestions' effort to emphasize quality in 1984. The gate greeters in the photos above — Dr. John Waszczak, director — Division Planning, Jeannine Yusunas and Barbara Cranmer, Quality Assurance — were easily recognized in their Convair caps. If you would like a "Think Quality, Then Suggest" poster, call Employee Suggestions at 39953 and ask for a copy. The image on the poster was generated with the help of the CAD/CAM department at Western Center.



People Notes

Recently retired Shuttle/Centaur program director **Chuck Wilson** received a Public Service Medal at the annual NASA awards ceremony held at the Lewis Research Center in Cleveland, Ohio. Chuck's recognition was "for exceptional contributions to the NASA launch vehicle programs through the management and direction of the Titan/Centaur, Atlas/Centaur, and Shuttle/Centaur launch vehicle systems." Everyone at Convair can be proud of this award. It was the only award at the 1983 ceremony made to a contractor. Congratulations, Chuck, and best wishes on your retirement.

State of the Division January 19

General Manager John McSweeny will present his "State of the Division" address at the regular meeting of the National Management Association Convair Chapter on January 19, at the Sheraton Harbor Island East Hotel. This meeting, traditionally a sellout, is sponsored by Operations with Ken Lake as executive host. Tickets are \$12 for members and \$17 for nonmembers. After you have your tickets, call Susan at 28084 for your reserved seat.

Convair Awarded Small ICBM Contract

Convair Division has been awarded a \$5 million contract from the Air Force Ballistic Missile Office at Norton Air Force Base, California. The award is one of four concept definition contracts to define weapon system requirements and configuration for a small, mobile, single-warhead missile. The other three prime contractors selected are Boeing, Martin Marietta, and McDonnell Douglas. This phase of the SICBM program, scheduled for completion in

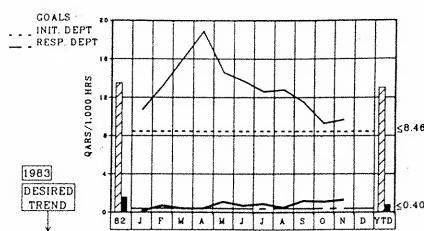
September 1984, will culminate with the selection of two contractors for a pre-full-scale development phase. Ultimately, in 1986, the Air Force plans to select one contractor for the full-scale development flight test and production phases.

Jerry Brown has been assigned the responsibility for this contract as program manager.

QIP Update: Measurement Parameters Flow Down

Quality Improvement Program (QIP) displays throughout Convair are visible reminders to all employees of the corporate program to improve quality through goal-setting, measuring results, and training. The displays contain 12 charts that track division-wide quality performance indicators. The chart below is an example of the flow down of division QIP parameters to the department level. In the example below, the chart shows the goals and performance on QARs per 1,000 hours for Department 038 — All-Up-Round Final Assembly. The department-level charts typically come in threes: QARs per 1,000 hours, scrap labor, and rework and repair labor. Goals are set and data tracked for both the initiating department (the department that finds a defect) and for the responsible department (where the defect came from). In this way, the Quality Improvement Program reaches the most basic levels of the division.

QARs per 1,000 Hours



If You Leave Convair

Every employee at Convair should be proud of his or her contribution in the last year and excited about the future. Increased benefits, new or up-

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graded facilities, and challenging work assignments are intended to create a stimulating and productive work environment. We're glad you're a part of our growing team. However, if you should have to leave Convair for any reason, you'll want to know about your benefits status and possible conversion to personal policies. At the same time, you need to complete your separation processing, including security debriefing. Employee Benefits is responsible for this processing. As soon as you know you're leaving Convair, ask your supervisor to call Employee Benefits at either KM or LF to arrange an appointment for you. At KM, Employee Benefits is located in building 8, adjacent to the employee dining room. At LF, the office is in building 16, adjacent to the Employment office.

Security Tip

For security purposes, cleared employees who become involved with, employed by, or act as a representative of a foreign government, firm, or individual are classified as "representatives of a foreign interest." This includes going into business for yourself to market or sell foreign goods or products. Department of Defense regulations require that this kind of activity be reported on a timely basis so that guidance can be provided. If you have questions on how this regulation affects you or you want to report your activity, call the Security and Investigation department, KM 38686, for clarification.

Scholarship Applications Available

Every year, the NMA Convair Chapter sponsors scholarships for dependents of all General Dynamics Convair Division and DSD-Western Center employees, regardless of whether parents are members of NMACC. The primary requirement is that the dependent be a high school senior or graduate (no more than one semester past high school graduation). Complete eligibility requirements are on the application forms, which will be available for employees Wednesday, January 11, at LF Educational Services (building 16), KM Educational Services (building 17), or either LF or KM Employee Benefits offices. If you have any questions, call Don Early, 28656, or Dottie Brugger, 35480.

From the Health-Fitness Center

Rock A'Robics. January 9, at 4:30 p.m., and January 10, at 4:30 and 5:30 p.m. Five weeks of classes cost \$20 for HFC members and \$25 for non-members.

Yoga. Tuesdays, 4:45 p.m., Missile Park. Five weeks of yoga cost \$30 for HFC members and \$35 for non-members.

Stop Smoking. January 16, 5:00 to 6:00 p.m., CRA clubhouse TV room. Preregistration required.

For more information, call the HFC at 39921.

Note to Company Travelers

The Lindbergh Field cashier's office will be open Monday through Thursday. Because the office is closed on Fridays, LF travelers should pick up their tickets and advances before Thursday afternoon at LF. On Fridays, all tickets and advances are available at the KM cashier's office.

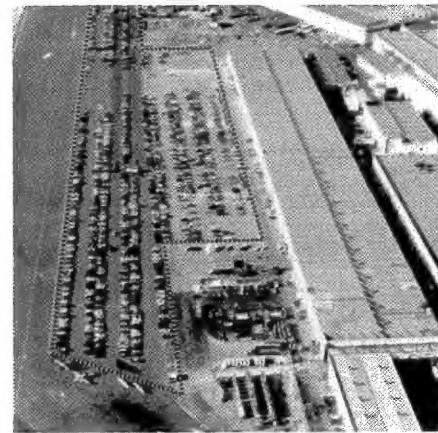
A reminder: The LF cashier's office is located at column N-1 on the mezzanine of building 1. Hours are 9:00 a.m. to noon and 1:00 to 4:00 p.m. The telephone number is 27666.

Convair Night at Disneyland

Once again it's time to make your plans to attend this special party at Disneyland for Convair employees, families, and friends. Tickets go on sale today for this special event to be held the evening of February 25. Event coordinators urge employees to get their tickets early. This year the number of tickets is limited; once our allotted number is gone, no more will be available. The price is \$7 per ticket (children under 2 free) and \$9.50 for bus transportation. Flyers will be up on bulletin boards listing where tickets may be obtained. For ticket information, call Jody Manuel, 28142. Your ticket will give you unlimited use of all Disneyland attractions (except arcades) and parking.

For PLFCU Members

The Point Loma Federal Credit Union has announced policy changes for 1984 affecting membership and several PLFCU accounts. Update sheets and copies of the PLFCU January newsletter, which contains a more complete explanation of the changes, are available at both Lindbergh Field and Kearny Mesa Employee Benefits offices.



New Parking Area at Lindbergh Field.

During the year-end holiday, the fencing and striping at Lindbergh Field's flight line parking area were modified to provide 600 more employee parking spaces. This aerial photo, looking northwest, shows that parking spaces are available in the flight line lot. For those not familiar with Lindbergh Field, that's building 4 just east of the parking area.

LF Gets New Paint

Painting of all exteriors at Lindbergh Field began the week of December 19 and will continue for the next few months. Plant Services requests that everyone at Lindbergh Field respect the roped-off areas while the work is going on. The roped-off areas are set up to protect employees and their personal property from any potential hazard. Thanks for your cooperation.

December Retirees

Convair's thanks and best wishes to these employees. Congratulations, December retirees!

Name (Dept)	Years of Service
Henry J. Hastings (985-1)	
Industrial Electrician A	30
Murray T. Love (302-0)	
Quality Assurance Specialist	1
Walter P. Mabee (985-3)	
Mech. Support - Fabrications	5
Charles L. McKnight (661-0)	
Sr. Test Engineer	19
Howard F. Pitt (623-1)	
Engineering Specialist	1
Earl G. Smith (355-0)	
Sr. Quality Engineer	23
Ellsworth O. Snyder (647-0)	
Engineering Specialist	23
Alexander S. Stebbins (451-0)	
Sr. Tooling Specialist	29
Arlo R. Thompson (102-2)	
Sr. Graphic Designer/A&E	27

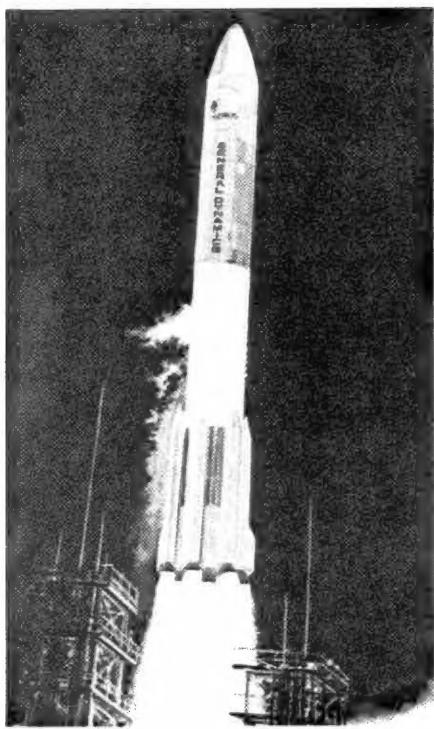
Employment

At the beginning of 1984, employment was 11,086.

CONVAIR Weekly Log

January 16, 1984

Published by the Convair Division of General Dynamics



The Atlas II/Centaur Concept Definition Study may lead to a new class of expendable launch vehicles with many military and commercial applications.

Atlas II/Centaur Concept Definition Study Awarded

The Air Force Space Division has awarded a \$500,000 concept definition study to Convair Division. The four-month study effort will support the preparation of competitive solicitations for launch vehicles and launch services, with a target contract award of October 1, 1984.

The study, which will be known as SLV-X (Standardized Launch Vehicle-X), requires that the SLV-X be a derivative of a current system to make maximum use of existing designs and hardware. The SLV-X is intended to complement the Space Transportation System (STS) fleet of orbiters, and will be required to match the Shuttle/Centaur capability of placing a 10,000-pound payload into geosynchronous orbit.

General Dynamics will study the Atlas II/Centaur vehicle, which we

have been examining for the past two years. A similar study has been awarded to the Martin Marietta-Denver Aerospace Division for an uprated Titan 34D/Centaur. General Dynamics will provide Centaur upper stage data to support the Martin effort.

The studies are expected to lead to competitive hardware proposals for two launches per year over a five-year period, beginning in 1988 or 1989. Options for larger quantities and longer periods of time are also to be considered.

Past studies, the new concept definition study, and the proposal effort are all the responsibility of Advanced Space Programs, under the direction of Don Charhut. Bill Strobl will continue to manage the overall activity and Bill Norris will continue as study manager. Bill Rector, division vice president for Space Programs, says that this study offers General Dynamics an opportunity to maintain our preeminent place as the leader in free world launch vehicle technology.

Tomahawk Scoreboard:

SSN 688 VLS Launch a Success

Antiship missile T82:1 was successfully launched from the underwater submarine simulator off San Clemente Island on Monday, January 9. The missile flew an initialized mission and was successfully recovered on San Clemente Island.

All the major and primary test objectives were met, clearing the way for a deep launch this month and a qualification launch series starting this fall.

Great Talent Search Goes On

1984 marks the third edition of the "Great Talent Search." This employee referral program was designed for and is successful in recruiting and hiring experienced, professional people. Due to your success in discovering great talent, engineers and scientists in particular, Convair acquired over 250 new hires through employee referrals during 1983. The 1984 program promises to be even more exciting with expanded participation and referral awards. Information on location and availability of new program brochures and referral cards will be available soon.

Tomahawk Production Requirements Exceeded in '83

Our Tomahawk cruise missile production contract requirements called for 74 missiles to be delivered in 1983: 38 GLCMs and 36 SLCMs. Congratulations to the Tomahawk team. Not only did they meet the requirement for total missiles, they exceeded it. By year end, 77 missiles were delivered: 42 GLCMs and 35 SLCMs.

December had the highest monthly total for 1983 vehicle deliveries. The 19 vehicles delivered included five production GLCMs, one GLCM recertification vehicle, nine SLCM antiship vehicles (eight submarine-launched and one ship-launched), and two submarine-launched conventional land-attack vehicles. The remaining two vehicles were flight test vehicles, including the first SSN 688 vertical launch missile and a ship-launched nuclear land-attack vehicle.

Savings and Stock Plan Values for November 1983

	1981	1982	1983
Salaried			
Government Bonds	\$ 2.8071	\$ 3.3096	\$ 3.6100
Diversified Portfolio	2.1371	2.5804	3.2414
Fixed Income	1.2718	1.4172	1.5888
Hourly			
Government Bonds	2.8045	3.3076	3.6084
Diversified Portfolio	2.1824	2.6352	3.3076
GD Stock	\$23.2500	\$31.1300	\$58.3750

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People Notes

Larry Hayes, manager - Product Support has been elected chairman of the Aerospace Industries Association Spare Parts Committee. Larry is the General Dynamics representative to the AIA Spare Parts Committee and has been active in this capacity for many years. Larry is part of Integrated Logistics Support and is responsible for all spare parts activities at Convair... **Bruce Bartholomew** of the Electro-Optical Technology Group has received U.S. Patent 4,417,813 for a nonscanning heterodyne optical imaging sensor... **Ted Stern** and **Dave Peterson**, both of Energy Systems and CAD/CAM Development, received U.S. Patent 4,416,052 for a method of making a thin-film solar cell, which is especially useful in space-based solar panels.

Educational Opportunities

The NMA Convair Chapter is sponsoring an investment seminar conducted by E.F. Hutton called the **Dynamics of Money Management**. The three-session series will be held January 24, 31, and February 6, from 4:45 to 6:30 p.m., in the building 5 mockup conference room A at Kearny Mesa. For more information, call 39911.

Administrative Skills for the Manager is one of three courses to prepare for the Certified Manager exams. The course will be held on ten Tuesdays starting January 31, from 4:30 to 6:30 p.m., in building 3 conference room W-5, fifth floor at Kearny Mesa. The cost is \$10 for NMA members and \$20 for nonmembers. Register with George Brown, 32050, or Julian Jaeger, 34463.

Scholarship Applications

Still Available

Applications for the NMA-sponsored scholarships are still available at both Educational Services locations (building 16 at LF and building 17 at KM), both Employee Benefits offices, the building 2 lobby at KM, or from John Campbell at Viewpoint Plaza. Dependents of all Convair and Western Center employees are eligible. Complete eligibility requirements are on the application forms.

From the Health-Fitness Center

Yoga. Tuesdays, 4:45 p.m., Missile Park. Five weeks of yoga cost \$30 for HFC members and \$35 for non-members.



Here they are... the people behind the camera. To celebrate receiving a group EXCEL award and the holidays, members of Still Photographic Services gathered for a group photo. In their EXCEL award, they were honored for their dedication and professionalism in providing photographic support services for Convair, Electronics, and Data Systems Divisions. How did they take the picture? They set up the shot and had a passerby press the button! Front (l to r): Bill Jones, Bob Montague, Roger Jett. Middle: John Brittain, Gail Johnson, Pete Autio, Ken Blum. Back: Forrest Letzring, Dan Nash, Bill Stillman, Bob Herrman, Ken Schnoeker.

Stop Smoking. January 16, 5:00 to 6:30 p.m., CRA clubhouse TV room. Preregistration required.

Time Management. January 23, 5:00 p.m., CRA clubhouse room C.

Business Image. January 24, 5:00 p.m., CRA park pavilion.

Shape-Up. New seven-week program begins on January 30. KM classes meet at 4:00 p.m. and cost \$40 for nonmembers. Harbor Island classes meet at 4:45 p.m. and cost \$30. Shape-Up is free for HFC members. Preregistration is required.

Call the HFC at 39921 for more information.

Security Tip

If you are working on classified material and you have to deliver that material to another person, make sure you hand it over in person. The employee security briefing states, "when in use, classified material must be under your direct control at all times." It is a security violation to leave classified material on a co-worker's desk if he or she is not there.

Tickets Available for Convair Night at Disneyland

Convair, Rohr, and Lockheed employees will have Disneyland to themselves on February 25, from 8:00 p.m. to 1:00 a.m. Tickets are available at \$7 per person for unlimited use of all park attractions and \$9.50 per person for the round-trip bus ride to Anaheim. In addition, 50 rooms have been set aside at the Howard Johnson's Motor Lodge near Disneyland. The rooms hold one to four people and are specially priced at \$49.68 (includes tax). You must make your own arrangements if you want to stay overnight by calling Howard Johnson's toll-free number, 1-800-422-4228. When you call, make sure you mention the General Dynamics special rate. Look for flyers in your area telling where tickets are available. For general ticket information, call Jody Manuel, 28142.

Employment

For the week ending January 6, employment was 11,098.

CONVAIR Weekly Log

January 23, 1984

*Published by the Convair Division of General Dynamics***Quality Circles****Made Impressive Gains In '83**

Fifty Quality Circles are now operating at Convair — 70% of them in Operations and the remaining 30% in Finance, Integrated Logistics Support, Program Development, Quality Assurance, and Engineering. By meeting weekly in circles, which have an average membership of 10 people, Convair people are devoting over 500 hours a week to quality issues. This activity led to some impressive accomplishments in 1983, posting \$1,290,000 in cost savings.

Here are some of the accomplishments made by individual circles in 1983.

"Solution Seekers," a circle in Planning (Dept. 431), set out to streamline their planning flow. Their idea that minor planning changes not be routed through the entire planning cycle produced a cost reduction of \$186,000.

"Motivators," the circle in Cutter Support (Dept. 463), was concerned about inadequate storage for machine accessories. They instituted a coded numbering system for machine accessory storage at a cost saving of \$10,656.

Technical Publications' circle, "Round Tuits," wanted to improve their control system for technical art. They came up with an art control master log that ensures quality input for the technical manuals they produce. The estimated cost saving for their solution is \$42,000.

Plastics and Metalbond's circle, called "CCC" (Depts. 028 and 019), wanted to improve their work scheduling system. They implemented a work control board that gives employees a visual aid to find the status, priorities, and line stoppages in their area. Their solution saved \$186,000.

"Miles of Files" in Engineering Management Services (Dept. 655) implemented a document recall system so that the essential documents they handle are available to engineers and drafters when needed. Their idea was submitted as an Employee Sugges-



Boeing 767 Program Recognizes Achievement. This group of people, who work on the Boeing 767 strut, got together December 19 for a special recognition event. Members of three separate Quality Circles were presented checks for their cost-saving ideas by George Williams, director — Aircraft Product Line, and Harry Gaugh, general supervisor — Operations. Frank Signorelli, assistant program director, presented recognition jackets to Jim Ogle, Dennis Holba, and Jim Becker for outstanding performance in the Boeing program.

tion, and the cost saving was \$5,412.

In addition to producing these tangible cost-saving actions, circles also contributed to intangible benefits such as increased morale and better communication. "Spare Ideas" in ILS (Dept. 267) developed a reference resource index of manuals, which improves the efficiency of their workplace. One of the circles in the Boeing 767 strut area — "1006 Firefighters" — met with people in the Plastics department, where kevlar parts are fabricated. This meeting helped the strut assemblers better understand the problems associated with this material.

Producing cost savings, improving quality, enhancing communication: at Convair, Quality Circles are fast becoming a way of doing business.

If you would like more information on how to start a Quality Circle, call Roberta Baade, 39947.

**The Great Talent Search
1984 Edition**

**THE GREAT
TALENT SEARCH
SECOND EDITION**

WATCH FOR DETAILS

**Value of CPR
Training Demonstrated**

Cardiopulmonary resuscitation classes will be held on Wednesday and Thursday, February 1 and 2, from 5:00 to 9:00 p.m. in the Kearny Mesa employee dining room. Jack Boucher of the Convair Fire Department and Emergency Medical Technician Team will conduct the class, which will also cover the method of rescuing a person who is choking (the Heimlich maneuver).

The value of CPR training is demonstrated by two stories about Convair employees. Alonzo Mejia, a dispatcher in the Machine Shop at Lindbergh Field, was recognized recently by the Safety department (photo below). Alonzo rushed to the aid of a fellow employee who began to choke while eating lunch. He performed a series of abdominal thrust maneuvers to dislodge the piece of food that had caused the man to choke.

Lance Brittain, 13-year-old son of John Brittain (who works in Still Photographic Services), took CPR training with his father last year at Convair. His training came back to him one night when he was babysitting and the child in his care stopped breathing. Lance performed CPR until the paramedics came.

To sign up for CPR training, call the Convair Fire Department's non-emergency number, 33100. Classes are open to all General Dynamics employees, families, and friends. The size of the class is limited to 75 people. A \$5 registration fee will be refunded when the eight-hour class is complete.



Herman Fleming, industrial safety engineer, and Mike Criscuolo, supervisor of Department 225, congratulate Alonzo Mejia as he receives a Safety Certificate of Appreciation.

On-Site Spring Classes Begin

Spring semester classes offered in-plant in conjunction with San Diego Community College began last week. A course in Industrial Blueprint Reading (Manufacturing Tech. 101) has been added to the schedule. The class meets in building 14, room 6 at Lindbergh Field from 4:30 to 6:30 p.m. on Thursdays. The class began January 19, but late registration is available the first night you attend. Call 22362 for more information.



Employee Suggestion Award. Waymond Bradshaw, a metal fitter in Department 036, was a happy Employee Suggestion award winner in December. He received \$3,999 for his idea to resequence the welding operation on the TEL/LCC forward equipment box. Waymond's suggestion saved an average of 135 hours on each box. Lou Imbimbo, Plant 19 manager, presented the award.

January Retirees

Convair's thanks and best wishes to these January retirees.

Name (Dept)	Years of Service
Everette C. Black (253-1) Maintenance Mechanic A	16
Margaret C. Chandler (251-7) Copy/Duplicating Mach. Op. A	27
Joe B. Heringhaus (131-7) Guard	33
Donald C. Herstedt (001-0) Drop Hammer Op.	27
Arthur B. Kelley, Jr. (102-4) Sr. Communications Specialist	20
Mary E. Laffoon (405-0) Secretary	27
Mary L. Loveall (541-0) Keyprocessing Op.	23
Marie B. Martinez (461-0) Mfg. Engineering Analyst	30
Alfred E. Montgomery (038-0) Group Leader-Missile C/O	35
William Paster (250-5) Lift Truck & Tractor Op.	13
Elizabeth C. Patterson (131-3) Secretary	29
Charlotte R. Paul (198-0) Sr. Management System Analyst	21
Jean C. Purdy (629-0) Sr. Management Clerk	1
Frederick J. Rose (850-2) Sr. Procurement Specialist	25
Gordon R. Stone (615-0) Adv. Systems Project Engineer	24
George W. Thompson (244-0) Sr. Industrial Engineer	5
George D. Young (191-0) Accounting Specialist	32

El Cajon to KM Vanpool Openings
Convair's vanpool servicing the 7:30 a.m. to 4:15 p.m. shift has two openings for employees who commute to KM from the East El Cajon, Parkway Plaza, and Grossmont. Call Carl Wannamaker, 33556 for information.

Income Tax Forms

State and federal tax forms are now available in the building 2 lobby at Kearny Mesa and at the Employee Benefits Office, building 16 at Lindbergh Field.

If you need federal tax forms, you should note that we have the worksheets only and no instruction booklets. You can get instruction booklets by calling the Internal Revenue Service, (800) 852-5711.

Security Tip

The Security and Investigation department wants to remind everyone with security clearances, and particularly people who regularly compose or generate classified information, about the Department of Defense regulation for marking classified information: "All classified material, including working papers, drafts, and notes, must be marked with the appropriate classification marking at the time they are composed." Security representatives in each department are responsible for supervising this activity. If you have any questions about security classification markings, see your department security representative or call Security and Investigation, 38167.

NMA Educational Opportunities

Administrative Skills for the Manager. January 31, 4:30 to 6:30 p.m. for 10 meetings. Call George Brown, at 32050 for information or to register.

Leadership Development. January 26, 4:30 p.m. Call Mike Lutich, 34151, for information.

Interpersonal Relations. January 25, 4:30 p.m. for seven weeks. Register with Dick Wilson at 35281.

From the Health-Fitness Center

Stop Smoking. Mondays, 5:00 to 6:30 p.m., CRA clubhouse TV room. Pre-registration required.

Time Management. January 23, 5:00 p.m., CRA clubhouse room C. \$2.

Business Image. January 24, 5:00 p.m., CRA park pavilion. \$2.

Shape-Up. New seven-week program begins on January 30. KM classes meet at 4:30 p.m. and cost \$40 for nonmembers. Harbor Island classes meet at 4:45 p.m. and cost \$30. Shape-Up is free for HFC members. Preregistration is required.

Call the HFC at 39921 for more information.

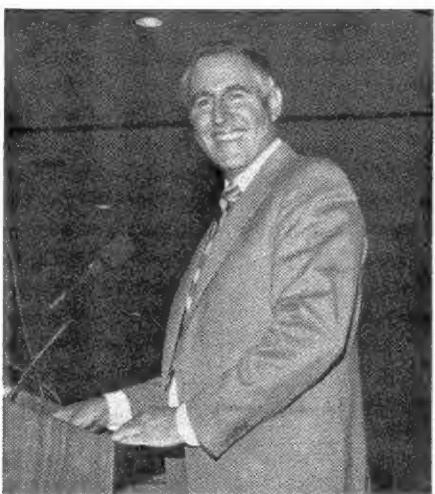
Employment

For the week ending January 13, employment was 11,120.

Weekly Log

January 30, 1984

Published by the Convair Division of General Dynamics



State of the Division Address

A capacity crowd of 800 heard General Manager John McSweeny give his State of the Division address at the January 19 meeting of the National Management Association, Convair Chapter. The following highlights of his message brought both congratulations and challenge to all Convair employees.

1983's accomplishments, which McSweeny termed "enormous," fit into four broad categories:

- Cost and schedule performance improvement
- Quality improvement
- Development programs expansion
- Facilities expansion and personnel colocation

McSweeny thanked not only employees, but also supporting spouses, families, and friends for the extra effort during 1983 that helped us to successfully meet our major milestones.

As we enter 1984, the challenge comes in the form of increased production commitments in cruise missiles and associated ground equipment, expendable launch vehicles, and aircraft structures; continued development program expansion of Shuttle/Centaur, Tomahawk, and Energy Programs; and ongoing effort in "probe and thrust" programs such as the small, hard-mobile ICBM, ad-

vanced tactical cruise missile, launch vehicle extensions, and advanced space.

The division will be challenged, too, by the huge planning effort required to meet these commitments, particularly as our employment buildup continues through 1984 and as hard decisions are made about allocating resources for training, facilities, systems, and technology developments. All of these challenges must be met while continuing our drive toward quality and productivity improvements.

McSweeny concluded by setting out the 1984 division goals:

- Meet our development and production schedules.
- Continue to improve quality and productivity.
- Win a majority of the Tomahawk business.
- Extend expendable launch vehicle business.
- Start advanced development programs.
- Meet earnings and cash commitments.

"My goal is to make this division a technical giant — a manufacturing giant — on the West Coast," he said. To reach this goal, he urged everyone to work together. "The way we'll be successful is through communication and teamwork."

A videotape of the "State of the Division" will be available soon. Supervisors should call Motion Pictures and TV, 39696, to arrange a viewing for their group.

Employee Suggestions Promotion Produces "Good Ideas"

Response has been great to the 1984 Employee Suggestions promotion, "Good Ideas Are Everyone's Business." Some great prizes await those eligible for the special drawing in March. To be eligible, all you have to do is send in an employee suggestion. Fifty names will be drawn for shirts and visors, and one lucky employee will be the winner of the

grand prize: a trip for two on PSA's "Great Escape Holiday Tour" package. Suggestions received after the March drawing cutoff date will go into the next quarterly drawing.

Here are a few reminders: If you send in a suggestion, let your supervisor know. Supervisors usually get involved at some point with the evaluation process, so it's a good idea to let them know you have sent in a suggestion.

Even though you are eligible for the special drawing, remember that your suggestion must be approved and implemented before you receive the regular award (10% of the net savings to Convair in the first year).

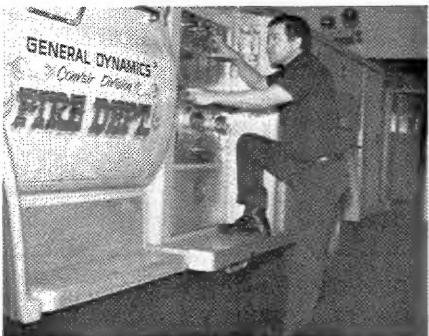
Convair Firefighters on the Job

Many people think first of the Convair firefighters when they encounter a problem, whether it's a car with keys locked inside or a fellow employee who appears to be having a heart attack.

The biggest job for the firefighters, of course, is fire prevention. This means conducting ongoing fire patrols at all plant locations to spot any fire hazards. It also means monitoring alarm boxes and sprinkler systems, inspecting and recharging fire extinguishers, and training employees in the use of extinguishers and other fire prevention techniques.

If they are called to a fire, their job is to get there fast — in the first five minutes — and then to extinguish the fire or contain it until the San Diego Fire Department arrives. (Convair firefighters conduct regular drills with the city to maintain a good liaison.)

Most of our firefighters have an A.A. degree in fire science or are pursuing one. In addition to fire prevention skills, we were one of the first industrial fire departments in the state to receive Emergency Medical Technician (EMT) certification for all personnel. Because all firefighters are EMTs, they are qualified to make medical evaluations when called to an emergency. They also give first aid



Counterclockwise, starting at left: Ed Perry at the KM fire station; Wayne Martel at the KM computer control center; Dick Maller and D.N. Lange checking the KM ambulance; Don Spencer at the LF hot line desk; and some of the LF firefighters/EMTs — Gari West, Bob Loeper, Jim Schatte, Ray Wishert, Kelly Hart, and Leigh Thomas.



when a nurse is not available in the plant — during second and third shifts and on holidays.

Both KM and LF stations have an ambulance and fire truck specially equipped to fight industrial fires. The emergency hot line is staffed 24 hours a day, seven days a week. At Kearny Mesa, the firefighters monitor the hot line and the energy system computer control board — a system that will also be installed at Lindbergh Field.

Until 1970 our firefighters were responsible for the crash and rescue operation at the Lindbergh Field airport. Several of our firefighters have exciting stories to tell about some of these experiences.

Here are some of the department's statistics for 1983.

- 664 emergency responses
- 364 ambulance runs
- 628 first aid responses
- 1,532 medical assists
- 268 fire hazards corrected
- 23 fires extinguished

Thanks to the Convair Fire Department, our workplace — a city within a city — is a safe place to be.

Security Tip

The Security and Investigation department is placing added emphasis on coordinating Convair Division's Industrial Security Program through liaison with department security representatives. This action is necessary to ensure a sound, effective DoD Security Program that educates



Convair employees about their security responsibilities.

Supervisors of departments with DoD-cleared employees who handle Classified, General Dynamics Private, Competition Sensitive, or Proprietary Information should notify Security and Investigation of all security representatives. Submit an AVO to Bob Rodriguez, MZ 16-1313, listing the name, phone number, and location (column and number) of department security representatives.

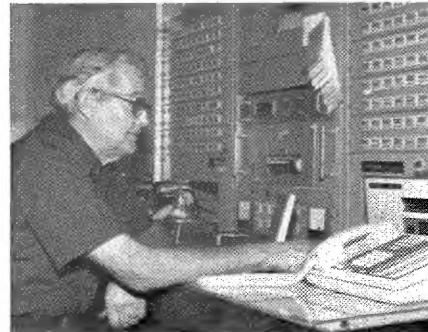
EXCEL Recognizes Excellence

EXCEL is an employee recognition program that has been in existence at Convair since 1973. Employees are eligible for individual or group EXCEL awards through the recommendation of supervision. A supervisor may nominate an employee for an EXCEL award for performance over and above normal job requirements or for outstanding contributions to the division.

To nominate an employee for an award, supervisors should fill out an EXCEL nomination form, which is available from their EXCEL Working Group Committee member.

Members of the EXCEL Working Group Committee are:

Dept/Member	Extension
Contracts & Estimating	
Julie Medley	33007
Industrial Relations	
Evelyn Cain	39959
Integrated Logistic Support	
Roy Sommers	35295



Manufacturing Control

Bruce Hamlin	24678
Industrial Engineering	
Earl Cantrell	25770
Manufacturing Engineering	
Buzz Prettyman	25633
Operations General Support	
Jim McIntyre	38363
Plant Services	
Lance Elmstrom	38166
Procurement	
Inez Markel	28252
Quality Assurance	
Larry Harter	34261
Research & Engineering	
Barbara Boganey	39462
Data Systems Division-Western Center	
Jody Turner	65106
Space Programs	
Richard Doubt	39787
Program Development	
Bud Smith	34934

Contact your EXCEL representative if you have any questions, or call Evelyn Cain, EXCEL coordinator, KM 39959.

From the Health-Fitness Center

Jazzercise. Begins February 8, 5:30 p.m., CRA auditorium. Five-week series; meets MWF.

WORKOUT. Five-week exercise class begins February 8, 4:30 p.m. CRA room A.

Yoga Fitness. Begins February 14, 4:45 p.m. CRA room A. Meets TTh for five weeks.

Call the HFC, 39912, for details.

Employment

For the week ending January 20, employment was 11,127.

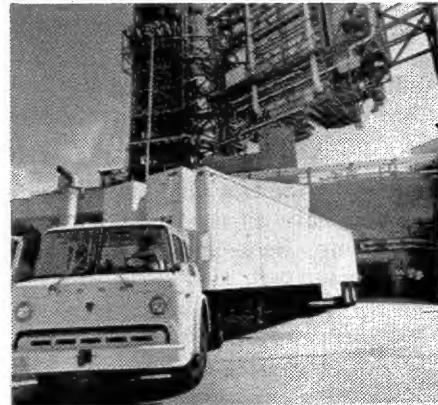
CONVAIR **Weekly Log**

February 6, 1984

*Published by the Convair Division of General Dynamics***THANK YOU**

The GLCM team of Army, Navy, Air Force, Department of Energy, and contractor personnel completed the necessary actions to achieve the scheduled GLCM Initial Operating Capability in December 1983. This new capability meets our commitment to NATO and provides a significant increase in our ability to deter aggression. I have been impressed by the efforts of all those who have overcome the many problems associated in deploying a major weapon system on schedule. The men and women of the GLCM program have my personal thanks for their dedication, hard work, and contributions to this success.

Caspar Weinberger, Secretary of Defense
2 February 1984

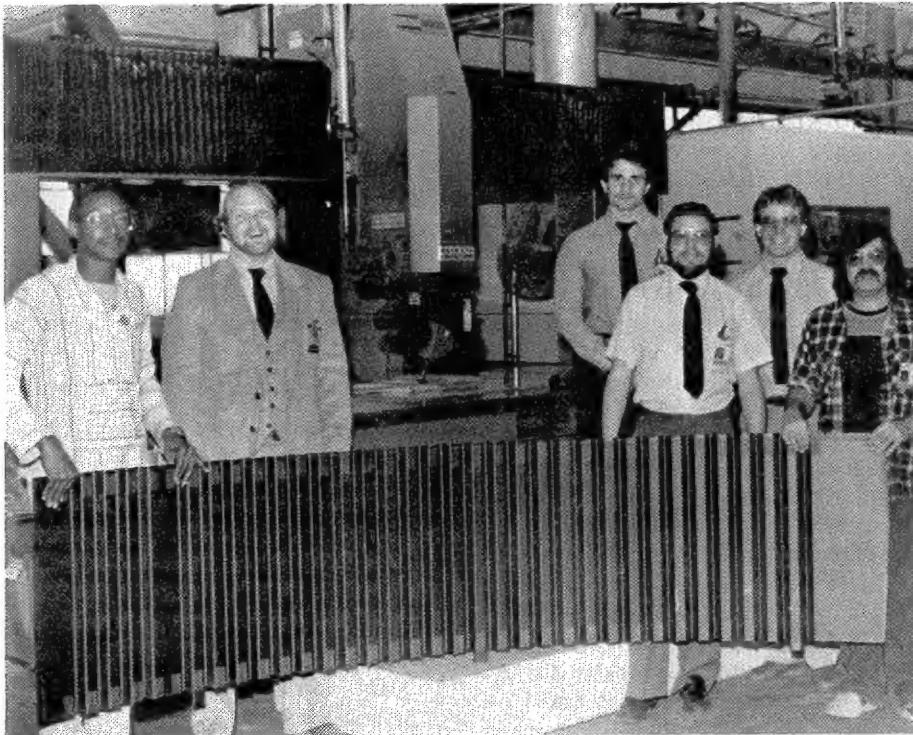


The photo above shows the Shuttle/Centaur mobile support equipment (MSE) trailer being positioned at the Kennedy Space Center Shuttle Launch Complex 39A. Eastern Test Range personnel (Department 979) received two MSE trailers in support of the Shuttle/Centaur program.

Note to Convair Business Travelers
As of the first of the year, Avis replaced Hertz as Convair's business car rental agency. Avis credit cards were distributed last week to replace Hertz cards. If you travel frequently and did not receive an Avis card but feel you need one, tell your supervisor. Supervisors may request credit cards by AVO to George Gigliotti, MZ 84-1930. Send Research & Engineering requests to Leo Springer, MZ 23-6500. (Return all Hertz credit cards to G. Gigliotti, MZ 84-1930.) If you have any questions, call Mary Hardy in Travel at 38261.

**There's Something New
in the Factory**

New green plastic pallets started arriving at Convair before Christmas to eventually replace the old conventional wood pallets. The new pallet, a one-piece, high-density polyethylene unit, offers many advantages over the old wood pallet. It has a capacity of 4,000 pounds and weighs only 44 pounds. Because it is resistant to high impact, it will last longer. Furthermore, if it should be broken or damaged, it is recyclable. (The supplier will provide replacement pallets



A team from Manufacturing Technology and Plastics at Lindbergh Field is pleased with the successful first cut made on a graphite/epoxy corrugated panel for the Shuttle/Centaur shroud (foreground). The team programmed a Cartesian 5-axis router (background) to make the cut, and their success will mean increased efficiency and enhanced production flow in Departments 019 and 028. The Cartesian 5 is a new machine in the Plastics department in Lindbergh Field building 3. After it was installed, Department 019 and 028 people received special training in its operation. The programming was done by a team led by Man Tech engineers Robin Arthur and Joe Deuer and Cartesian 5 operators Guy Taylor and Tony D'Agostino. The Cartesian 5 will be used to cut composites for other programs besides the Shuttle/Centaur, including the Boeing 767 strut, the KC-10, and Atlas. Left to right: Guy Taylor, Cartesian 5 operator; Rod Stith, Shuttle/Centaur program office; Joe Deuer, Man Tech engineer; Craig Jones, Operations supervisor; Neil Haas, industrial engineer; and Tony D'Agostino, Cartesian 5 operator. Not pictured: Robin Arthur, Man Tech engineer.

-OVER-

for less than half the original cost.) Industrial Engineering anticipates only 1% breakage annually, but if you see a green plastic pallet that is damaged beyond use, notify Transportation, who will pick it up. The new pallets will provide cost savings because of their long life and also because dunnage — the material that surrounds cargo to prevent damage — will be eliminated. If you have any questions about the new pallets, call Industrial Engineering Material Handling on the hot line number, 27979.

Maintenance Hot Line Numbers

If you have to report maintenance problems, here are the telephone numbers to call:

Kearny Mesa, Sycamore Test Sites, Mission Plaza, Seville Plaza 38269
Lindbergh Field, Harbor Drive 28575
Plant 19 25675

Use these numbers to report such maintenance problems as plumbing leaks, leaking roofs, cracked glass in doors or windows, clogged toilets, machines or lab equipment not operating, trouble with animals on the premises, or malfunctions in heating, air conditioning, or lighting.

Security Tip

If you handle material that is classified General Dynamics Private, Proprietary, or Competition Sensitive Information, you are required to safeguard it at all times. In addition, your responsibilities include:

- Ensuring that Private and Competition Sensitive Information is locked in desks, files, or safes when not in use or after working hours.
- Keeping Proprietary Information out of sight during working hours, and locked in desks or files after working hours.
- Releasing all material with these classifications to Document Control Stations for final disposition.

See the Convair Security Manual for detailed instructions.



The Great Talent Search Goes On!

Would you like to have a new color TV, microwave oven, or stereo system? These are only a few of the many items that can be yours through the Great Talent Search employee referral program. Watch for details of the 1984 expanded Great Talent Search and discover how you can be a winner!



EXCEL — Pride Makes the Difference.

Dean Bjarkman, a missile mechanic, received an EXCEL award for "outstanding performance in the Atlas/Centaur Assembly department." When the award was presented, Dean (second from right) received congratulations from Howard Bonesteel, director — Operations, Space Products; Larry Antista, general supervisor; and Chuck Lacy, superintendent — Space Products.

Value Engineering Workshop

Value Engineering is a technique for evaluating an item's function to remove unnecessary cost. Over the past six years, 500 Convair employees have been trained in Value Engineering by participating in workshops designed to strengthen skills and develop an appreciation for the concept. Participants are engineers and representatives from a cross-section of functional disciplines such as Quality Assurance, ILS, Operations, Contracts & Estimating, and Purchasing. They work on projects provided by ongoing division programs. The end result is employees who have the ability to manufacture quality products at the lowest possible cost — a major priority to Convair and our customers.

The next Value Engineering workshop will be held at Kearny Mesa, March 12-16 and 19-23, from 7:45 to 11:45 a.m. daily. Department quotas for the workshop have been distributed. If you are interested and in a position to use Value Engineering skills, see your supervisor for possible nomination. For more information, call Bill Frank, 38206.

December

Employee Suggestions Awards

Employee Suggestions award winners in December provided a big finish to 1983. A total of \$31,877 was awarded to suggesters, including a maximum award of \$10,000. JoAnn Ross, a buyer in Purchasing, won the maximum award for her suggestion that individual packaging need not be required in all programs for resistors, capacitors, and diodes — items that are ordered in great quantities. (Convair purchased 584,325 resistors for the Cruise Missile program alone in one year!)

Awards from \$25 to \$100 went to 75 people, and 41 received \$100 or more. Award winners of \$300 or over are:

Name (Dept)	Amount
Cal Anderson (038)	430
Ronald Bradley (253-3)	468
Waymond Bradshaw (036)	3,999
Bud Elkins (134-2)	394
Richard Golem (028)	1,208
Arnold Green (067)	496
Keith Johnson (050)	473
William Johnson (038)	409
S.R. Kirchmann (350)	2,039
D.E. Koster (031)	420
Harold Leyva (031)	380
Frances Navarette (050)	1,924
Cliff Nelson (985-3)	410
Ronald Reekers (350)	362
JoAnn Ross (820-4)	10,000
W.C. Thornton (015)	381
Dennis Uhlken (661)	919
Ruth Williams (432)	370

From the Health-Fitness Center

JazzXercise. Begins February 8, meets MWF at 5:30 p.m. Five-week class.

WORKOUT. Begins February 8, meets MWF at 4:30 p.m. Five-week class.

Rock A'Robics. Begins February 15. Meets MW at 4:30 p.m., and TTh at 9:30 a.m., 4:30, 5:30 p.m.

Blood Analysis. Get your blood analyzed for triglyceride, cholesterol, HDL, and LDL levels and LDL/HDL ratios. February 27 and 28, KM employee dining room, 6:00 to 10:00 a.m. By appointment only.

Interpretation. March 1, CRA Room A, 4:30 to 5:30 p.m. Call the HFC for appointment.

Stop Smoking. Every Monday, 4:30 p.m., CRA TV lounge.

For more information or to register, call the Health-Fitness Center, 39921.

Employment

For the week ending January 27, employment was 11,185.

CONVAIR Weekly Log

February 13, 1984

Published by the Convair Division of General Dynamics

Corporate P/QIP Meeting

Convair was the host division for the bimonthly Productivity/Quality Improvement Program (P/QIP) corporate meeting on February 1 and 2, attended by 50 representatives from nine General Dynamics divisions and several government agency guests. Dr. A.M. Lovelace, corporate vice president - Productivity and Quality Assurance, and F.O. Chesus, vice president - Operations and Quality Assurance-Aerospace, presided over the meeting. The keynote speaker, E.J. Westcott, assistant to the commander for Product Assurance (Hq. Air Force Systems Command), challenged General Dynamics to continue to improve product quality and reliability as well as cost performance.

P/QIP meetings allow the exchange of proven techniques and ideas among operating divisions. General Dynamics has a large reservoir of experience, and the sharing of methods, procedures, and systems benefits all the participating divisions and the teams of people involved with quality and productivity improvements.

A Word About Colocation

Colocation is a word often seen in connection with facilities planning at Convair. The *Weekly Log* has received some questions about what colocation means and how it affects our workplace.

Programs and Functions. Convair Division is organized on the program-directed matrix structure. We have four major programs - Space, Cruise Missiles, Energy Systems, and Aircraft. Additional functional groups include Finance, Research & Engineering, Contracts & Estimating, Operations, Quality Assurance, Integrated Logistics Support, Industrial Relations, Planning, and Program Development. Colocation is an attempt to gather *all* people who work on a program, including the people from functional areas who support the program, together in one location. The goal is to build teamwork, enhance communication, and provide

easier interface among program-related people.

Project Status. Our colocation effort has been going on for over a year. Here is the status of our major colocation projects.

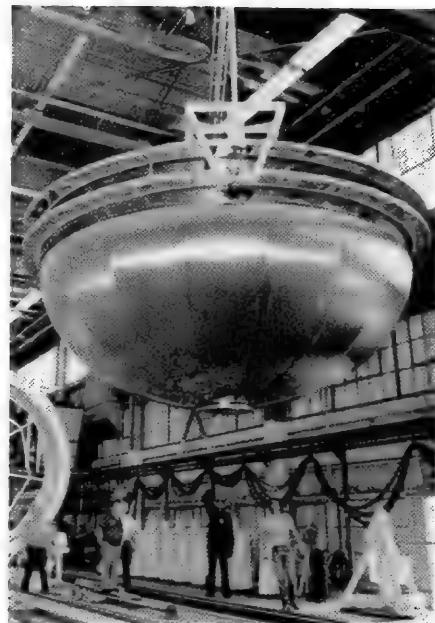
- Over 1,000 people who work in Space Programs are now located together in building 26 at Kearny Mesa. Core engineering people are located in building 25.
- Phase 1 of Cruise Missile colocation was completed in January when 600 people moved to new offices in Kearny Mesa building 5. When Phase 2 is completed, between now and July, over 1,000 people will work together in building 5 with Assembly and Test people.
- Phase I of GLCM TEL/LCC colocation involved moving 200 people to the mezzanine of building 3 at Plant 19. Phase 2 is aimed at moving 200 more people into the area to support the GLCM TEL/LCC production. The total includes people from Engineering, Contracts & Estimating, and Finance.
- Five buildings at the Harbor Drive Facility were refurbished during 1983 to house Convair's Energy Systems manufacturing functions and program offices.

Tax Assistance for Convair**PLFCU Members**

CPA Peggy Smith will be providing tax preparation services at the Point Loma Federal Credit Union, Sports Arena office, beginning February 20. Fees are competitive, and appointments can be made by calling 225-TAXX.

Savings and Stock Plan Values for December

	1981	1982	1983
Salaried			
Government Bonds	\$ 2.7892	\$ 3.3649	\$ 3.6347
Diversified Portfolio	2.0894	2.5504	3.1851
Fixed Income	1.2834	1.4313	1.6043
Hourly			
Government Bonds	2.7866	3.3630	3.6332
Diversified Portfolio	2.1335	2.6045	3.2500
GD Stock	\$24.5000	\$33.0000	\$58.1250



Major Program Milestone. Pictured above is the 14-foot-diameter forward bulkhead and first constant skin of the Shuttle/Centaur G-Prime (foreground). It is being readied to be loaded onto the major weld headstock (background). The work is being accomplished by people in Department 759, who are responsible for all launch vehicle tank manufacturing.

Tomahawk Production Update

Six production Tomahawks were completed and delivered in January. Among these was antiship Tomahawk 60B-1, the first FY82 SLCM air vehicle to be delivered. In addition to the production deliveries, we delivered one GLCM recertification missile and two FSED flight test vehicles. Both were ship-launched land-attack nuclear vehicles for test flights from USS *Merrill*.

OVER



Robin Feenstra, a secretary in Requirements & Identification (Dept. 606), was the lucky winner of a trip for two to see the 10th launch of the space shuttle on February 3. The day before the launch, she and her guest enjoyed a closeup look at the shuttle and launch pad. The next day they viewed the 8:00 a.m. launch from the VIP grandstand area. According to Robin, "It was a spectacular event and a memorable experience. I feel very fortunate in being able to go." The trip was the "secret" prize in the National Management Association's Scholarship Fund drawing at the January State of the Division meeting. It was donated by Operations in concert with the general manager and Space Programs.

People Notes

AIAA Winner. Mark Spangler, thermodynamic engineer (Dept. 696), has won first place in the American Institute of Aeronautics and Astronautics (AIAA) National Student Paper Competition, undergraduate division. He received \$500, a certificate of merit, and an AIAA medal for his first-place paper titled "Thermal Response Model for Opaque and Semi-Transparent Fiber-Epoxy Materials Subjected to Laser Irradiation." Mark was a student at Northern Arizona University when he won the Western regional competition last March, which was sponsored by Convair Division, Rohr, and Spectral Dynamics.

Get Your Tickets Now for Disneyland Night

Tickets are still available, but going fast, for Convair night at Disneyland, Saturday, February 25. The \$7-dollar-per-person tickets allow General Dynamics employees, families, and friends unlimited use of the park's attractions and entertainment (except arcades) from 8:00 p.m. to 1:00 a.m. Look for flyers in your area that tell where tickets are sold.

More News from the Factory

Since 1949, black metal tubs have been used in machining areas to convey work-in-progress to other stations or to store finished parts. Today's new high-density polyethylene bins with mating lids hold up to one ton and don't rust, peel, or splinter. Like the plastic pallet we told you about last week, the new bins provide cost savings because of their long life and because they don't need dunnage to protect the metal parts inside. If you have any questions about the new bins, call Industrial Engineering Material Handling's hot line, 27979.

Security Tip

Security investigations are conducted periodically by Defense Investigative Service (DIS) personnel to ensure that our facility meets DoD security requirements and that employees with security clearances know their security responsibilities, especially the DoD "reporting requirements" — those particular affiliations, relationships, or situations that must be reported to Convair's Security and Investigations department. Here are a few questions that DIS people ask Convair employees during investigations.

- What should you do if you are befriended by or establish a relationship of any type with citizens of a communist country?
- What should you do if members of your immediate family or your spouse's immediate family decided to take residence in a communist country?
- What should you do if you travel to or through a communist country, or attend a meeting, anywhere in the world, including the U.S., with communist citizens in attendance?

The answer to all three questions: Report the situation to Security and Investigations, 38167, immediately. Knowing the DoD "reporting requirements" is everyone's responsibility. Ask your department security representative if you have any questions.

Volunteers Wanted for Adopt-A-School Program

Do you remember when you had to make the choice about your future career? Remember the questions you had before you went to college or got your first full-time job?

The National Management Association's Adopt-A-School Com-

mittee invites you to participate in sharing with high school students the things you have learned about the transition from school to work. Convair people have been working with Morse High School for the last two years providing speakers for career orientations, as well as volunteering their time to speak to student organizations. If you would like to share your expertise, please call Keith Manning at 35535. You don't have to be an NMACC member to get involved in this rewarding experience.

Vanpool Openings

Vanpool openings are available for Lindbergh Field and Plant 19 employees on the 7:00 a.m. to 3:30 p.m. shift who commute from El Cajon. Morning pickup points are the Pinnacle Peak Restaurant and the intersection of Mollison and Madison. Call Bruce Smith, 579-5236, or Everett Shackleton, 28723 or 449-2389 for details.

From the Health-Fitness Center

February Is Health Month. John L. Boyer, M.D., F.A.C.C., will give a free lecture on heart disease February 20, at 5:00 p.m., in the CRA pavilion.

Blood Analysis. Blood work: February 27 and 28. Interpretation: March 1. Both by appointment only; \$13 fee.

Rock A'Robics. Begins February 15. MW, 4:30 p.m.; TTh, 9:30 a.m., 4:30 and 5:30 p.m.

Yoga. Begins February 14, 4:45 p.m., CRA room A.

Stop Smoking. Mondays, 4:30 p.m., CRA TV room.

For more information, call the Health-Fitness Center, 39921.

The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair Division. If you have stories of interest to Convair people, call Julie Andrews, 39955, or send them to MZ 33-1334.

Managing Editor . . . Julie Andrews
Production Editor . . . Nancy Mumford
Design/Layout . . . Peter Urban

Watch for details on the 1984 Great Talent Search Program!



Employment

For the week ending February 3, employment was 11,220.

CONVAIR Weekly Log

February 20, 1984

Published by the Convair Division of General Dynamics

AC-62: Ready to Launch

Atlas/Centaur AC-62, the first of a new generation of Atlas/Centaur, was completed and shipped on February 15.

The Atlas/Centaur vehicle, scheduled to launch another Intelsat V spacecraft on May 17, was trucked to Miramar NAS, loaded on a USAF C-5A transport plane, and delivered to Eastern Test Range.

AC-62 is the first of a new series of Atlas/Centaur with improved performance. Both the Atlas booster stage and the Centaur upper stage have been enhanced with new technology for larger payload capability. The upcoming launch marks a major milestone for the Atlas/Centaur vehicle in continuing its reliability record while demonstrating improved performance and establishing the baseline for future commercial Atlas/Centaur launch vehicles.

The Intelsat spacecraft that will be launched by AC-62 will continue the worldwide radio, telephone, and TV communication services provided to member nations. TV coverage of the Winter Olympic games and other international events are relayed to the United States by Intelsat satellites that were put into orbit by Atlas/Centaur vehicles.

In commenting on the AC-62 delivery, Atlas/Centaur program director Dennis Dunbar said, "For those involved in the extra efforts required to complete AC-62 on time, a special thanks for a job well done."

**Tomahawk Scoreboard:
T207:1 Successful!**

Tomahawk T207:1 was launched from USS *Merrill* on February 15. The missile flew a successful land-attack mission to the Tonopah Test Range in Nevada and was recovered. The flight of T207:1 is the first flight in the Navy operational evaluation phase of the ship-launched land-attack missile program.



Our first new Atlas G vehicle was carefully loaded for shipment last week. Atlas G is 81 inches longer than its predecessor, Atlas SLV-3D.



Elizabeth Dole, Secretary of Transportation (front left) and Jenna Dorn, head of Space Transportation Office, are shown during a tour of the launch vehicle assembly area, accompanied by John McSweeny and Bill Rector. The vehicle on the right is the Centaur upper stage for AC-63 in an early stage of assembly.

**Convair Welcomes
Secretary of Transportation Dole**

Elizabeth Hanford Dole, Secretary of Transportation, visited Convair on February 15 with three members of her senior staff: Jenna Dorn, Mari Maseng, and Charlotte Ellis. The visitors were hosted by General Manager John McSweeny and division vice president - Space Programs Bill Rector, who led a tour of the Atlas/Centaur production area. During the tour, information was also presented by Lee Scherer, program director - Commercial Space, on the scheduling and marketing aspects of our commercial expendable launch vehicle activity.

In an Executive Order issued last November, President Reagan designated the Department of Transportation as the lead agency responsible for government activity in licensing com-

mercial launch vehicles. Secretary Dole and her staff are strong supporters of the commercial ELV initiative and expressed confidence in General Dynamics' plans for Atlas/Centaur.

Material Handling Training

Training classes in Material Handling Methods are being offered to all factory employees at 10:00 a.m. on Tuesdays at Lindbergh Field and 2:30 p.m. at Kearny Mesa. Supervisors with employees who wish to enroll should contact Industrial Engineering Material Handling's hot line numbers: 27979 or 35858.

Material Handling Methods

	Date
Electronic Harnesses,	
Cables & Connectors	2-21
Formed Sheet Metal Parts	2-28
Surface-Coated Parts	3-6
Mechanical Assemblies	3-13
Film Adhesives & Composite Materials	
Handling & Storage	3-20
Raw Materials Receiving,	
Handling & Storage	3-27

Shuttle/Centaur CSS Production Begins!



Top: Eardis Green and Joe Herron of Department 031 are loading the side beam of the Centaur support structure (CSS) into the fixture to begin first production unit. Bottom: Production continues on the yoke assembly of the structure, which will support the Centaur vehicle inside the shuttle cargo bay. These operations are taking place in Kearny Mesa building 5. The first production unit is a test article that will be used for structural testing at Sycamore Canyon Site B in the Engineering Test Labs.



Third Superconducting Magnet Complete

Pictured above is the third superconducting magnet fabricated at Convair for the Elmo Bumpy Torus Proof of Principle Program (EBT-P). This magnet was completed two weeks ahead of the forecasted delivery schedule. "Shipment of this magnet to the Oak Ridge National Laboratories represents the conclusion of a highly successful development program," said Energy Systems program manager Sam Ackerman (right). A great deal was learned about this type of superconducting magnet; its design was based on advanced concepts. To date, the first two EBT-P magnets, which were previously delivered and tested at Oak Ridge, have exceeded their design objectives and will be used in a new test platform for further Department of Energy fusion programs. Also pictured is Mike Kimmy, project engineer for the final phase of the program.

Employee
Suggestions
wants your
good ideas!

Good Ideas
Are
Everyone's
Business!

Opportunities from NMA

Tax Seminar and Workshop. IRS experts will discuss how to fill out the 1040 form and schedule A on February 28. On February 29, IRS people will be on hand to help you fill out your tax forms. Both begin at 4:45 p.m. and meet in KM building 5 mockup conference room B. Call Dave Snow, 65280, for details.

Effective Executive. Four-week course begins March 5, at 4:30 p.m., in Kachigan conference room, building 26, Kearny Mesa. Call Ted Parsons, 27865, for details or to register.

Scholarship Deadline. NMA scholarship applications and applicant high school transcript records must be received by March 31. Applications are available at Employee Benefits and Educational Services offices at both LF and KM. Call Don Early, 28656, for details.

Security Tip

Don't disclose classified information over the telephone or any other communications media unless the communications medium is approved by Industrial Security for transmitting such information.

From the Health-Fitness Center

February Is Health Month. John L. Boyer, M.D., F.A.C.C., will give a free lecture on heart disease February 20, at 5:00 p.m., in the CRA pavilion.

Blood Analysis. February 27 and 28. Interpretation: March 1. Both by appointment only; \$13 fee.

Stop Smoking. Mondays, 4:30 p.m., CRA TV lounge.

For more information or to register, call the Health-Fitness Center, 39921.

Travel Services Relocation

Travel Services has moved to the Ask Mr. Foster Travel Agency, 9340 Clairemont Mesa Boulevard (corner of Rufin Road), Suite C. The new telephone number is 573-2300. Travel Services will be open from 7:30 a.m. to 4:15 p.m.; the travel agency will stay open until 5:00 p.m. Convair travelers should make reservations as usual. Tickets will be delivered to the cashier's office at Kearny Mesa twice daily and will be distributed in the usual way. Soon all employees of San Diego-area Convair facilities will make their travel arrangements through this expanded office with added personnel to provide better services and less telephone waiting time.

The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair Division. If you have stories of interest to Convair people, call Julie Andrews, 39955, or send them to MZ 33-1334.

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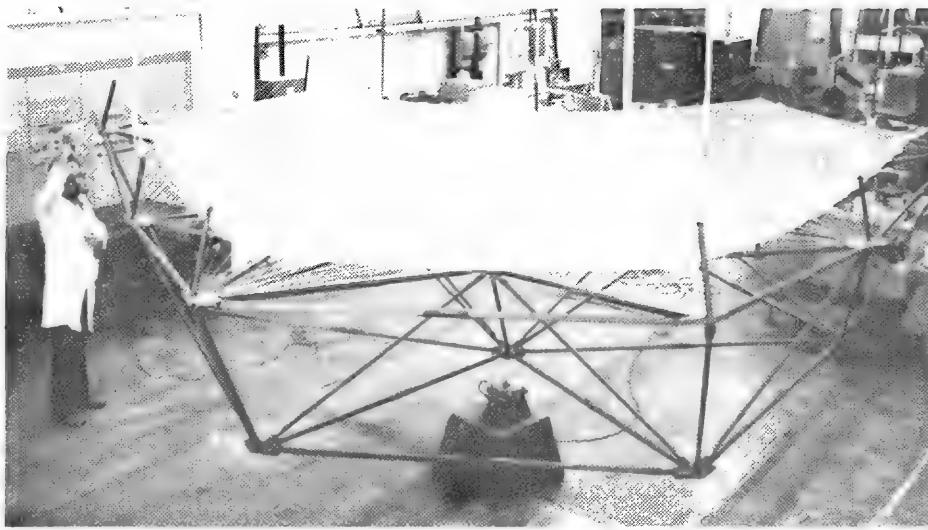
Employment

For the week ending February 10, employment was 11,240.

CONVAIR Weekly Log

February 27, 1984

Published by the Convair Division of General Dynamics



Study Contract Award for Convair
 The contract recently awarded to study deployable offset reflector antennas for communications satellites is a significant milestone in developing communications satellite systems capabilities at Convair. It will involve evaluating the performance of our proprietary geodetic truss deployable reflector, pictured above, as a first step toward possibly using it on future communications satellites. The contract is with Intelsat. Jean Claude Bensimon is the project manager, reporting to Shel Kulick, Advanced Space Programs, Communication Satellite Systems program manager.

Quality Assurance

Skill Recognition Programs

The Craftsman program is set up to recognize competency and integrity by giving workers authority to verify the quality of their own work. Authority is delegated by the Inspection department at the request and recommendation of a worker's supervisor and with the approval of the Inspection supervisor. When a person gains approval, he or she is awarded a craftsman stamp and verification card to identify which tasks are authorized under the designation. The program has strict rules on the stamp's use. When controlled and used properly,

the program provides for efficient department operation.

Convair Craftsman stamp: A mark of quality.



Another program that recognizes skill level is the Convair Personnel Certification program. Certifications are required by our government contracts in certain skills like welding and soldering. Convair has elected to include other work areas under the same guidelines. People are certified in their skill after formal training as well as written and demonstration testing. They also receive a card that identifies their certification, and they must periodically be recertified while continuing to work in the field of their certified skill.

Information on either program is available from any Quality Assurance supervisor or from Bill Posey, 34200.

Coming Soon!

GD World Tours
presents

Window to the Orient

First-class travel at special bargain rates for General Dynamics employees, families, and retirees.

Watch for details!

Convair Visitors Tour Tomahawk Production



Senator Pete Wilson (R-Calif) visited Convair on February 17 and received division and key government program overviews from John McSweeny and his staff. In the photo above, Senator Wilson is being briefed on cruise missile production operations by Ed Squires. (L to r): John McSweeny, vice president and general manager; Ed Squires, division vice president - Cruise Missile Production; Senator Pete Wilson; Cushman Dow, Convair general counsel; Paul Kane, superintendent - Cruise Missile Test and Checkout; and Ted LeFevre, corporate vice president - Government Relations.



Congressman Joseph Addabbo (D-NY) visited Convair on February 21 for program briefings. During his visit, he received a tour of cruise missile operations conducted by Mike Keel, division vice president and program director - Cruise Missiles.

-OVER-



Plant 19 Shuttle/Centaur Tools in Place and Operating

The group in the photo above from Plant 19 building 3 is in front of the aft gantry welder, a huge, 50-ton tool that constant-welds the skin on the Centaur tank sections. The group includes jig builders, welders, tooling inspector, tool designer, Operations supervisor Joe Schimka, and tooling processor. The aft gantry welder is one of eight major tools designed and built by Convair people to support Shuttle/Centaur production. Through computerized controls, it can be moved in four directions on a rail track installed in the support dock so that welding operations can be done on the Atlas/Centaur line as well as on the Shuttle/Centaur line. Kenny Evans (third from left, front row), a jig and fixture builder with almost 30 years of experience at Convair, was the key task leader for building the tool. According to Bob Taylor, Operations general supervisor, Kenny was "the secret to the success of building the tool on schedule."

Security Tip

Those of us who must deal with classified information have the critical responsibility of protecting it from unauthorized disclosure. Our nation's defense, as well as our ability to perform on and obtain classified programs, depends on each of us safeguarding classified material. Here are some tips on how to prevent unauthorized disclosure during use:

- Cover classified material when

people who are not cleared or do not have "need-to-know" are in your area.

- Be sure classified conversations cannot be overheard.
- Lock your security container before you leave its immediate location.
- Challenge unauthorized or unknown people in your working area when classified activity is in progress.



EXCEL — Pride Makes the Difference.

Duane Guilford and Ed Powell, group leaders in Production Control, have received EXCEL awards for their exceptional leadership qualities and job performance. On hand for the award were Ben Martinez (left), Production Control manager, and Mike Criscuolo, Production Control supervisor (right). Production Control is responsible for the movement and scheduling of detail parts throughout the machine shop. Duane and Ed were instrumental in the success of two key projects in their area: a move of small and large tools that involved well over 30,000 tools, and the set-up of an innovative central staging area for work control.

February Retirees

Forty-six people retired in February – too many to list at one time. Best wishes to all retirees. The rest of the names will appear next week.

Years of Service
Harry C. Allison (759-0)
Mfg. Ops. General Supervisor 36
George R. Bailey (311-0)
Quality Assurance Administrator 42
William R. Beverly (627-0)
Sr. Engineer 28
Lloyd V. Boles (046-0)
Aircraft Assembler 42
Martin S. Brombach (431-0)
Sr. Tool Ops. Planner 37
Doris T. Christian (251-8)
Photographer Repro Tech. 32
Armand B. Cross (282-2)
T&O Group Leader 28
Alfred H. Damarus (253-3)
Chief – Plant Services 43
Jess G. Delgadillo (015-0)
Lathe Machinist 24
Marvin N. Delperdang (235-1)
Ops. Supervisor Mfg. Control 24
Elizabeth Garaux (063-0)
Aircraft Assembler 8
Charles C. Giarrizzo (810-0)
Procurement Administrator 2
Melvin L. Goolsby (250-2)
Ops. Supervisor – Plant Services 27
Billie O. Green (253-1)
Maintenance Mechanic 27
Marvin R. Gutzka (243-2)
Facilities Engineer 25
Forrest F. Hammond (432-0)
Tooling Specialist 42
Henry J. Hartin (195-1)
Sr. Financial Analyst 30
Odell Houston (253-4)
Custodian 30
Glenn Karel (101-1)
Proposal Development Specialist 42
Lewis V. Kaserman (273-0)
Logistics Administrator 26
Laval F. Lau (220-0)
Manager – Mfg. Control 32

From the Health-Fitness Center

Walking 4 Fitness. March 2-30. Meet in front of CRA, Wednesdays and Fridays, at 11:40 a.m.

Bend Your Knees. Free back care lecture, March 7, CRA room D, 4:45 p.m.

Back Screen. March 8, 4:30 p.m., CRA room B. By appointment only.

Weight Loss Contest. March 8-April 9. Orientation lecture on March 8, 4:30 p.m., CRA clubhouse.

For more information or to register, call the Health-Fitness Center 39921.

Employment

For the week ending February 17, employment was 11,263.

CONVAIR Weekly Log

March 5, 1984

Published by the Convair Division of General Dynamics

Tomahawk Production Rate Cap

"Positive results in Tomahawk missile performance and in the improved contractor performance in providing a quality product warrant the removal of the limitation on monthly production of 10 to 12 missiles..."

John Lehman, Secretary of the Navy

The production rate "cap" is an average monthly Tomahawk delivery rate ceiling based upon total fabrication, assembly, and test and checkout capability. It takes into account machining and processing capabilities, test and checkout equipment capabilities, personnel, training, and program plans for improvements and rate increases in view of current and future cruise missile production requirements. In the normal progression from development and test rates (one or two missiles per month) to full production rates, the Tomahawk program has gone through two caps. During 1982 and early 1983, a four- to six-vehicle-per-month cap was in effect. Last September, the cap was raised to ten to twelve vehicles per month, and on February 27, that cap was lifted.

Rear Adm. S. J. Hostettler, director-JCMP, sends a personal "well done" to all hands.

Tomahawk Production Update

Eleven production missiles were completed and delivered during February. These deliveries included ten first-builds and one GLCM recertification. The ten production missiles included four GLCMs, three submarine-launched conventional land-attack missiles, and one ship-launched anti-ship missile. The remaining two were the first ship-launch land-attack nuclear missiles for production. Both missiles, configured with recovery exercise modules for flight test, were launched from USS *Merrill*.

In addition to the production vehicles, three full-scale engineering department vehicles were completed

during February and delivered to USS *Merrill* for flight tests; two were anti-ship missiles and one was a land-attack nuclear missile.

GD WORLD TOURS

Presents Window to the Orient



Brochures will be mailed soon to all employees and retirees detailing the great travel package to the Orient made possible by General Dynamics and Ask Mr. Foster Travel Agency.

The 16-day tour to Korea, Hong Kong, and Japan will include round-trip air fare from Los Angeles, accommodations at first-class hotels, an Ask Mr. Foster tour guide, and much more. The best part is that the tour is a real bargain—approximately 25% less than other similar travel plans. The Window to the Orient tour is available to General Dynamics employees, family members, friends, and retirees.

Several representatives will be on hand at a special tour program and film presentation at the CRA pavilion on Monday, March 19, from 4:45 to 6:00 p.m. Free refreshments and snacks will be served, and everyone will have a chance to hear firsthand the adventures in store for those who take the tour.

People Notes

S. M. Ahn, a senior engineering specialist in Department 688, has received a certificate of appreciation for his participation in a joint conference of the American Institute of Aeronautics and Astronautics and the Institute of Electrical Engineers. Ahn conducted a tutorial on the Kalman filter, an algorithm used in guidance and navigation aspects of the cruise missile, aircraft, and launch vehicle programs at Convair. Ahn is also a visiting scholar at UCSD, teaching a course in digital signal processing.

CPR Training Class

The next CPR training class will be offered on March 14 and 15, from 5:00 to 9:00 p.m., in the Kearny Mesa

employee dining room. Attendance at both class meetings is required to receive initial certification or to be recertified. The \$5-per-person registration fee is due before March 9 to confirm your place in the class. Call the Kearny Mesa fire station, 33820, for more information or to register.



A Job Well Done

Atlas/Centaur program office and production management sponsored a picnic for over 400 people at CRA Missile Park on February 29 in appreciation of the long hours, hard work, and dedication put forth by Departments 759 and 761 and supporting functions in preparing AC-62 Atlas and Centaur vehicles for shipment to ETR. Fabrication and assembly of the vehicles presented an extra challenge because they are the first in a series of new-design Atlas G and Centaur vehicles. Dennis Dunbar-Atlas/Centaur program director, Howard Bonesteel-Space Programs product line director, and Richard Jumont-NASA LeRC resident office manager were on hand to express their appreciation to the group. A drawing was also held to award 50 lucky winners with Atlas/Centaur T-shirts.

February Retirees

Convair's thanks and best wishes to these people who retired last month.

John E. Leib (611-0)	
Engineering Staff Specialist	31
Walter E. Lippert, Jr. (427-0)	
Project Engineer	30
Leonard J. MacDonald (820-4)	
Sr. Buyer	31
Dale E. Mansfield (684-0)	
Sr. Configuration Mgmt. Spec	37

Arthur T. McArdle (979-4)	24
Supervisor – Quality Assurance	24
Milton M. McCaskey (001-0)	
Special Project Mechanic	42
Clarence L. McLaughlin (617-1)	
Sr. Engineer	33
Robert M. Oldham (131-6)	
Guard	31
Philip A. Pacheco (001-0)	
Special Project Mechanic	43
Mildred O. Pleva (251-7)	
Copy Dup. Machine Operator	25
Raymond A. Ponchetti (031-0)	
Field Test Mechanic	33
John H. Quail (015-0)	
Jig Borer Machinist	2
Lawrence B. Richards (250-2)	
Maint. Sheet Metal Worker	30
Lawrence W. Roberts, Sr. (431-0)	
Sr. Manufacturing Engineer	1
Philip H. Rudolph (001-0)	
Special Projects Mechanic	43
Donald F. Schonholtz (612-0)	
Sr. Engineer	31
Rogelio R. Serrano (626-0)	
Sr. Scientist	38
Barbara Sjoblom (554-4)	
Sr. Software Engineer	30
Neil L. Smith (424-0)	
Group Engineer	38
David E. Stouffer (272-0)	
Logistics Specialist	33
Charles J. Tait (616-0)	
Engineering Specialist	23
Everett J. Wehrhan (633-2)	
Research Test Lab Tech	31
John Q. Wickham (311-0)	
Quality Assurance Specialist	32
Wayne Willett (063-0)	
Aircraft Assembler	31

NMA Educational Opportunities

First-Line Supervisor Course 5. Pre-register on March 14, 4:15 to 4:30 p.m., KM building 3, conference room E-4. The seven-week class begins March 21, and costs \$5 for NMA members and \$15 for non-members. The course facilitator is Krista Edmonds, 35357.

Boy Scouts for Computers. Volunteer your time to help sponsor a Boy Scouts of America Explorer Post to help boys and girls learn about computers. An hour of your time is all it takes. Call either Jon Siennick, 39651, or Dave Snow, 65280, for details.

Business Concepts. First-line supervisor course 9 begins March 8 at KM building 25, executive conference room. The seven-week class costs \$5 for NMA members and \$15 for non-members. Contact Rick Allen, 38247.

How to Become a PLFCU Member

A membership information packet, which outlines initial fees and deposits, required forms, and infor-



Preproduction People Make It Happen. Kearny Mesa building 5 tool manufacturing people are the counterparts to the Plant 19 crew (see the February 27 *Weekly Log*) who have met all milestones on schedule to support Shuttle/Centaur production startup. The group in the photo above are from Jigs & Fixtures, Inspection, and Tool Design. They and others on the second shift have completed 12 major fixtures for the Centaur support system, which is now well into production. In the background are fixtures for the keel beam and the side panels of the support structure. The crew built ten final assembly tools, all complete except for the major dock assembly fixture where final assembly of the Centaur tank (built at Plant 19) and the support structure (built at Kearny Mesa) will take place.

mation necessary to join the Point Loma Federal Credit Union, is now available at both Employee Benefits offices. If you have any questions after you review the packet, please call the credit union at 226-1600.

Security Tip

Our Security and Investigations people want us to know that they are placing added emphasis on the classification markings required on classified working papers, rough drafts, notes, and art work.

- Appropriate “Top Secret, Secret, Confidential, or Unclassified” markings must be annotated in bold letters on the top and bottom of each page of classified material at the time it is composed.
- Do not place unclassified notes in classified documents unless they are clearly marked “Unclassified.”

These markings are required by the Department of Defense to inform the holder that the material has to be protected against unauthorized disclosure. Supervisors and department security representatives are asked to inspect their classified holdings to

check that all working papers are properly marked. This is an area that requires continuous supervision to ensure compliance with DoD security criteria and one that will be closely examined during future inspections.

From the Health-Fitness Center

March is Back Care Month. Free lecture and film presented by Dr. Art Campbell, D.C., March 12, CRA room C, 4:45 p.m.

A **back test** to help you design a personal back care exercise program, by appointment only, on March 8. The fee is \$2.

Free **back care lecture and film** on March 7, 4:45 p.m., CRA room D.

WORKOUT. Beginning March 14, WORKOUT classes will meet MWF, at 4:30 p.m. in the CRA auditorium. Please note the new location.

For more information or to register, call the Health-Fitness Center, 39921.

Employment

For the week ending February 24, employment was 11,281.

CONVAIR Weekly Log

March 12, 1984

Published by the Convair Division of General Dynamics



Dan Da Pra, division vice president—Research & Engineering (right) and Henry Hyman, director—Engineering Business Management (left) look in on the Engineering 510 class. Dr. Pinto appears on the large television screen during class. The smaller camera carries the video of the Convair classroom back to SDSU.

Convair Engineers Take Advanced Degree Class On Site

Twice a week, a group of Convair engineers leave their work places to attend San Diego State University's Engineering 510 class. They don't have to fight freeway traffic to get there; they simply walk to the conference room facilities at the southwest corner of building 5 at Kearny Mesa, where they participate in Dr. John Pinto's lectures on matrix methods in aerospace structures.

The technology that makes it possible is interactive video and two-way voice communications. Dr. Pinto's class is held in one of SDSU's TV classrooms equipped with remote cameras. The signal from SDSU is transmitted to an antenna on top of building 5, which sends the video and audio down to the classroom's color television. At the same time, a slow-scan black-and-white camera picks up the Convair class, and sends the video and audio back to SDSU over existing telephone lines, enabling Convair students to speak with Dr. Pinto during class.

The course is a pilot program between Convair and SDSU engineering departments to offer classes leading to an M.S. degree in electrical

engineering on site. The project is the first of its kind with private industry in the San Diego area. Based on the success of this program, the same technology may be used to offer other degree programs on site.

Convair Awarded Small ICBM Hard Mobile Launcher Contract

Convair has been awarded a \$5 million contract from the Air Force Ballistic Missile Office at Norton Air Force Base. Program manager Dr. Merle J. Aleshire said the award is one of four concept definition contracts to define hard mobile launcher requirements, operations, and configuration. The other three prime contractors selected are Boeing, Martin Marietta, and Bell. Scale models of a preferred configuration will be delivered by all contractors to the Air Force for testing.

This phase of the program, scheduled for completion in December, will culminate with the selection of two contractors for a pre-full-scale development phase. Ultimately, the Air Force plans to select one contractor for full-scale development and production phases.

Convair People Overseas Supporting GLCM in Europe

Since 1982, Integrated Logistics Support groups have been preparing interim contract support (ICS) people to live and work in Europe in support of ground-launched cruise missile deployment. In January 1983, the first group went to England to support initial operational capability, which took place on schedule last December. The second cadre arrived in Italy in October 1983, and the screening and selection process has begun for the third group in Belgium.

Does a European assignment sound glamorous? Candidates for ICS teams who think so are counseled throughout the screening process and subsequent training to look at the realities of the assignment. In fact, the jobs are demanding, and living in a foreign country can be tough on families who are cut off from familiar surroundings and culture.

Training begins during the selection process as candidates are prepared early on for what to expect. For example, the people selected to work in Italy received 40 hours of language instruction as well as one week of cultural indoctrination and nine weeks of technical training. Nearly eight months after the selection process began, they were ready to go.

The careful preparation and training of ICS personnel has been successful so far. The zero-turnover rate reflects an efficient operation, especially when compared with other companies, most of whom have high turnover rates in their overseas assignment programs. According to Barbara McDonald, ILS logistics specialist, the keys are screening and training. Barbara is responsible for setting up the adaptability screening process and the language and cultural training for ICS team members and their families.

Support doesn't stop after deployment. Integrated Logistics Support maintains close contact with Convair people overseas to help solve problems and provide necessary support.

OVER

Barbara circulates letters here to keep everyone informed about what's going on at the bases and how their experiences might affect the training and selection of future ICS teams.

Currently, ICS openings for Belgium are listed through the Professional Enhancement Program flyers, which are posted on bulletin boards throughout Convair.

Employee Suggestions

Awards

Good Ideas



Congratulations! You are the lucky winner of a PSA Great Escape for two to San Francisco.

One lucky employee suggester will receive this grand prize in the first quarterly "Good Ideas Are Everyone's Business" drawing to be held next week. Twenty-five shirts and visors will be awarded as well. Suggestions received after March 14 will go into next quarter's drawing for the same prizes. Drawing prizes are in addition to the regular award system for employee suggestions.

A total of \$14,258 was awarded to Convair suggesters in January and February. Seventy-four people were presented with awards of up to \$100 and 37 people received \$100 or more. Award winners of \$200 and over are:

Name (Dept.)	Award(\$)
Michael Basile (352)	234
Patricia Chipp (194-4)	496
Thomas Edwards (350)	288
Kenneth Eulette (618)	1,569
Vern Gilson (015)	432
Richard Golem (028)	382
Danny Grasmick (359)	271
Larry Liddle (031)	216
S.F. Lopez (985-4)	488
Kenneth Mallison (985-4)	200
David McMillan (050)	278
Leon Meaux (346)	253
JoAnn Rousey (320)	327
Ronald Strandberg (436)	645
Harold Teel (756)	287
Suzanne Wagner (031)	512
Debra Wilson (362)	234
John Wines (759)	209
Mark Wollen (661)	532
Aurora Ybarra (050)	228

- The number of suggestions received so far in 1984 is 85% above last year.
- Employee Suggestions analysts are working to establish review teams in functional areas so that all people who need to evaluate a suggestion work together. This will speed up the evaluation process.
- Involve your supervisor concerning your suggestion. It will help in the evaluation process.

GD WORLD TOURS 東

Window to the Orient

The special tour preview and film presentation has been postponed from Monday, March 19, to Wednesday, March 28, from 4:45 to 6:00 p.m., in the CRA pavilion. Refreshments will be served.

Dial 38000 for calls requiring Convair operator assistance.

Opportunities from NMA

Effective Executive. This four-week course, which begins March 26, is designed for people with all levels of management experience. The course facilitator is Ted Parsons, 27865. The fee is \$5 for NMA members and \$15 for nonmembers. Meet in KM building 26, 2nd floor conference room, column J-26, at 4:45 p.m.

Developing Employee Performance. First-line supervisor course 8 begins March 21. This seven-week course focuses on how supervisors monitor and build employee performance. The course facilitator is Krista Edmonds, 35357. The fee is \$5 for NMA members and \$15 for non-members. Preregister on March 14, 4:15 to 4:30 p.m., KM building 3, conference E-4 (east end of the 4th floor).

Business Concepts. First-line supervisor course 9 begins March 15. Facilitator: George Brown, 36437. Class is held in KM building 25, Research & Engineering conference room, for seven weeks.

The Great Talent Search Goes On!



The second edition of the Great Talent Search employee referral program will close on March 31. At that time two Convair employees will be awarded grand prizes: one for the greatest number of eligible referrals and the other for the most hires resulting from referrals. The new third edition, which promises to be even more exciting with expanded participation and merchandise awards, will premiere April 1. All referrals received after April 1 will be processed under new third edition rules, which will be available soon.



\$10,000 Smile! At an all-hands meeting on March 7, Russ Babcock, director-Procurement, presented JoAnn Ross with her maximum Employee Suggestion award of \$10,000. JoAnn, a buyer, won for her packaging cost-saving idea.

Join Your Co-Workers

Lend An Arm

GIVE BLOOD

Convair and Western Center

Blood Drive

April 2-6

"Takes All Types" T-Shirts for All Donors

*Reservation Details
Next Week*

From the Health-Fitness Center

March Is Back Care Month. Dr. Art Campbell, speaker of the month, March 12, CRA room C, 4:45-6:15 p.m.

Palm Springs Health-Fitness Center Retreat. May 11-13. Registration deadline, April 4.

Lunch Hour Lecture Series. The Equities Game, March 14, 11:45 a.m.-12:15 p.m., CRA pavilion. Free.

Walking 4 Fitness. Wednesdays and Fridays, 11:40 a.m.-12:20 p.m., in front of CRA.

Jazzercise. Begins March 14. Meets MWF in CRA auditorium at 4:30 p.m.

Weight Loss Contest. Meet March 15, at 4:30 p.m., in CRA room A.

WORKOUT. Begins March 26. Meets MWF in CRA auditorium at 5:30 p.m.

Rock A'Robics. Free introductory classes March 26 and 27. Regular sessions meet M-Th, 4:30 and 5:30 p.m., in CRA room A.

For more information or to register, call the Health-Fitness Center, 33921.

Employment

For the week ending March 2, employment was 11,295.

CONVAIR Weekly Log

March 19, 1984

Published by the Convair Division of General Dynamics



Sharing her valuable experience, Lela Spahr looks on as Eddie Haynes cuts a hole in a composite fire shield for the Atlas/Centaur. Fabricating this part takes from 175 to 200 manhours. Rework is costly, so this kind of knowledge-sharing is valuable.

Ensuring Quality at Convair: Sharing Expertise

During a recent walkaround, Operations vice president Ken Lake spotted a composite part for the Atlas/Centaur in the layup room at Lindbergh Field building 3 — a part he called "beautiful." To an untrained eye, a composite part — like the one in the photo above — may not seem beautiful. However, when you consider that it takes several years for a plastics fabricator to develop expertise at producing a part like this, the adjective is fitting.

The part was built by Lela Spahr, a plastics fabricator with 33 years of experience at Convair. Lela not only produces quality work, she also shares her expertise by helping train newer people.

Lela began her career at Convair in B-24 production during WWII and smilingly acknowledges that she was a "Rosie the Riveter." Like so many "Rosies," she left when wartime production ended but returned in 1951 to work as a tank sealer on the B-36. The list of aircraft she has worked on is a history of Convair aerospace programs: the 240, 340, 440, 880, 990,

C-5, C-141, F-106, F-111, DC-10, KC-10, and Atlas/ Centaur space launch vehicles. Continuing this progression, Lela will soon begin working on parts for the new Shuttle/ Centaur.

Lela's supervisor, R.D. "Benny" Beneventi, has nothing but praise for her work. When asked what helps her achieve this quality, Lela replies, "Pride is one of the most important things in my work. I love my job!"

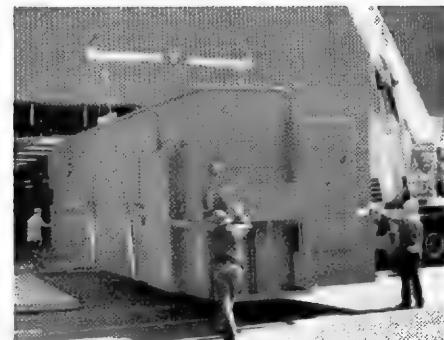
Congratulations to this Convair Quality Star.

People who listen to San Diego Padres baseball games are familiar with the expression, "You can hang a star on that one!" when a player makes an especially good play. The Weekly Log is borrowing from that expression to tell about some Quality Stars at Convair; those people who are outstanding because of consistent, high-quality work, positive attitude toward co-workers, and dedication. Supervisors: if you have a person you would like profiled as a Convair Quality Star, call Weekly Log editor Julie Andrews at 39955.

LF and Plant 19

Phone Number Changes

Effective today, all Lindbergh Field extensions in the 25000 series are being changed to 26000. The last three digits of the phone numbers will stay the same. There will be other phone number changes at Plant 19, too many to list in the *Weekly Log*. If you are having trouble reaching your party, call Information at 33459. If your phone number has been changed, either call 33413 to report your new number or mail the change-of-number postcard in the Convair Directory. Your correct number will be included in the new directory that will be out in six weeks.



Imagine moving a refrigerator that is 10 feet tall, 10 feet wide, and 36 feet long! This is the task the Transportation people had as they moved a new 15-ton environmental chamber from an oversized, flatbed truck into building 5 at Kearny Mesa last week. They used an overhead crane to lift the chamber off the truck onto dollies. Then a Hyster gently nudged the chamber through the double doors. The new chamber is the largest at Convair and is capable of producing temperatures from -100F to +350F. It will be used to test two cruise missiles at one time in both high and low temperature extremes. This new piece of equipment will be installed in the test and checkout area to support increased Tomahawk production.

Security: It's Everyone's Job!

Convair is growing. So is the amount of electronic equipment such as computers, word processors, and memory typewriters. We need to remember that electronic equipment is not authorized for the processing of Department of Defense classified information without prior approval from the Industrial Security department. If your electronic equipment can read, display, store, or produce material, contact Industrial Security, 38167 before processing classified material.

Savings and Stock Plan Values for January

	1982	1983	1984
Salaried			
Government Bonds	\$ 2.8106	\$ 3.3840	\$ 3.6786 27.97
Diversified Portfolio	2.0370	2.6402	3.0635 16.95
Fixed Income	1.2953	1.4459	1.6206
Hourly			
Government Bonds	2.8075	3.3817	3.6768
Diversified Portfolio	2.0801	2.6948	3.1254
GD Stock	\$26.0000	\$38.0000	\$53.0000

OVER



Service Award Breakfast. Employees who completed 35 or 40 years of service were honored at a breakfast in the executive dining room on February 24. General Manager John McSweeny thanked the honorees for their many contributions to Convair. Pictured above from left to right (front): Mac McGuire (35 years), Cathy Hinton (35), Betty Wright (40), John McSweeny, Al Crosthwaite (35), Tom Jones (40), and Mike Bock (35). Back row: Joe Pearl (35), Orison Wade (35), Lou Thoulion (35), Ken Lake (staff), Russ Babcock (staff), John Hopkins (35), Aaron Winner (40), Dave Archibald (staff), and Oscar Sorenson (35).

To Clear Up Some Confusion,

There's Travel, and There's Travel

Convair Travel Services has moved to the Ask Mr. Foster travel agency at 9340 Clairemont Mesa Boulevard, Suite C. They are open from 7:30 a.m. to 4:15 p.m. daily, and their number is 573-2300.

CRA Travel has not moved. They are still open for business in the CRA clubhouse from 11:00 a.m. to 6:00 p.m. daily, except Tuesdays, when their hours are 3:00 to 9:00 p.m.

The difference between the two is that Convair Travel Services makes travel arrangements primarily for company-funded business travel. CRA Travel provides recreational travel services for General Dynamics employees, including airline tickets, rental cars, hotels, tours, and cruises. Their phone number is 278-1177 or 573-9920.

Notice to Salaried Employees Enrolled in the Kaiser Health Plan as of 1/1/84: Because of a computer error at Kaiser, salaried employees may be receiving cancellation notices in the mail. **DISREGARD THE NOTICE.** New 1984 Kaiser identification cards will be sent out to salaried employees soon.

NMACC March Meeting

Gene Harrison, marketing and management specialist, and Joan Embrey, San Diego Zoo and Wild Animal Park hostess, will be the featured speakers at the March 22 National Management Association Convair Chapter dinner meeting. The meet-

ing, which is sponsored by the Finance department with executive host Chuck Bohle, will be held in the Regency Room of the Islandia Hotel. Dinner is at 6:30, and the program follows at 7:30 p.m. Tickets are \$9 for NMA members and \$15 for non-members. Seating is reserved, and smoking and nonsmoking sections are available. Call Mary Lou Grant, 25538, for your table reservations.

GD WORLD TOURS Window to the Orient



Remember: The presentation and film on the General Dynamics-sponsored tour to Japan, Hong Kong, and Korea at the CRA pavilion is on Wednesday, March 28. Free refreshments will be served from 4:45 to 6:00 p.m. GD people and an Ask Mr. Foster representative will be there to tell about the tour and answer questions.

Make a Reservation To Lend an Arm

Call today to reserve time to donate blood during the Convair and Western Center Blood Drive. All employees benefit from the Convair Reserve Fund by either a reduced processing fee or no fee at all depending on your insurance coverage. There is never a charge for the use of units of blood for any employee or dependent family members. The San Diego Blood Bank is the only supply source for all 30 San Diego County hospitals, and donations of 300 pints a day are required to supply the community's need. With each blood drive, we set new records. Let's all help make this drive our most successful.

Plant	Call	Date	Time
KM	33820	April 2	8:00 a.m. to 3:30 p.m.
KM	33820	April 3	8:00 a.m. to 1:00 p.m.
LF	28244	April 4 or 5	8:00 a.m. to 1:00 p.m.
Plant 19	28244	April 6	8:00 a.m. to 4:30 p.m.

Make your reservation early to donate blood and receive your "It Takes All Types" T-shirt.

Opportunities from NMA

Effective Executive. This four-week course, which begins March 26, is designed for employees with all levels of management experience. The course facilitator is Ted Parsons, 27865. The fee is \$5 for NMA members and \$15 for nonmembers. Meet in KM building 26, 2nd floor conference room, at 4:45 p.m.

Developing Employee Performance. First-line supervisor course 8 begins March 21. This seven-week course focuses on how supervisors monitor and build employee performance. The course facilitator is Krista Edmonds, 35357. The fee is \$5 for NMA members and \$15 for non-members.

Reminder: Applications for NMA scholarships must be turned in by March 31. This includes the applicant's school transcript. Applications are still available at Educational Services and LF and KM Employee Benefits offices. Dependents of all Convair and Western Center employees are eligible. Call Don Early, 28656, for information.

From the Health-Fitness Center

Palm Springs Health Fitness Retreat. May 11-13. Registration deadline, April 4.

Yoga. Begins March 20, 4:45 p.m., CRA.

WORKOUT. Begins March 26. Meets MWF, 4:30 p.m., auditorium.

JazzXercise. Begins March 26. Meets MWF, 5:30 p.m., CRA auditorium.

Rock A'Robics. Begins March 26. Meets MTWTh, 4:30 p.m., room A. For more information or to register, call the Health-Fitness Center, 39921.

Employment

For the week ending March 9, employment was 11,329.

CONVAIR **Weekly Log**

March 26, 1984

Published by the Convair Division of General Dynamics

100th Tomahawk Delivered!



The delivery of the 100th production Tomahawk last week brought smiles all around as Rear Admiral S.J. Hostettler, JCMP director, congratulated Mike Keel, division vice president—Cruise Missiles. In the background: Ken Lake, division vice president—Operations, and General Manager John McSweeny. Tomahawk number 100 is our first production submarine-launched land-attack nuclear missile. Current plans call for the 200th Tomahawk to be delivered in December of this year, further evidence of accelerated cruise missile production.

Convair Represented at Space Conference

Mike Simon, an engineer in Advanced Space Programs, presented a paper at the recent Space Shuttle/Space Station Business Opportunities Conference in Washington, D.C., attended by aerospace firms, developers, investors, and representatives of industries that may have commercial interests in space development.

Simon's presentation, "Commercial Use of Space," focused on the industries that will be necessary to support NASA's manned space station, targeted for development by President Reagan in his State of the Union address. Simon based his conclusions in part on the 1983 Convair space station study for NASA, which presented plans for a hypothetical community in space consisting of many independent companies providing products or services such as fuel, transportation, communications, repair, power, and research.

During the conference, Simon was interviewed by National Public Radio, which produced a space travel segment for the "All Things Considered" program.

Convair is already active in commercial space development. We have obtained permission from NASA to operate our Atlas/Centaur launch vehicles commercially—an important "first" for major U.S. aerospace firms. In the long term, our proposed orbital transfer vehicle will play a large part in the operation of the manned space station. The OTV will be capable of delivering satellites to special orbits or retrieving them for service back at the space station.

Employees interested in finding out more about America's space program can enroll in a UCSD extension class taught by Mike Simon called Space Colonization. The class begins Wednesday, April 4, at 7:00 p.m., at the UCSD campus. Call 425-6947 to register. Registration is open until April 11.

QA Group Receives Award

A group from Quality Assurance has received an EXCEL award for their efforts in compiling and distributing the pocket-sized Convair Workmanship Standards Manual. The awardees are Bill Posey, chief—Quality Engineering; Gary Stachwick, group engineer; Bob Bailey, QA project administrator; Mary Stewart, secretary; and Anne Johnson, secretary. The manual is designed to supplement company drawings, specifications, and manufacturing instructions by providing a handy, visual reference for acceptance and rejection criteria and other information used in the manufacture and inspection of quality Convair products.

The booklet was prepared in Art & Editorial by Steve Gallup, editor; John Clinger and Curt Johnson, technical illustrations; and Mike Ozaki, cover design.

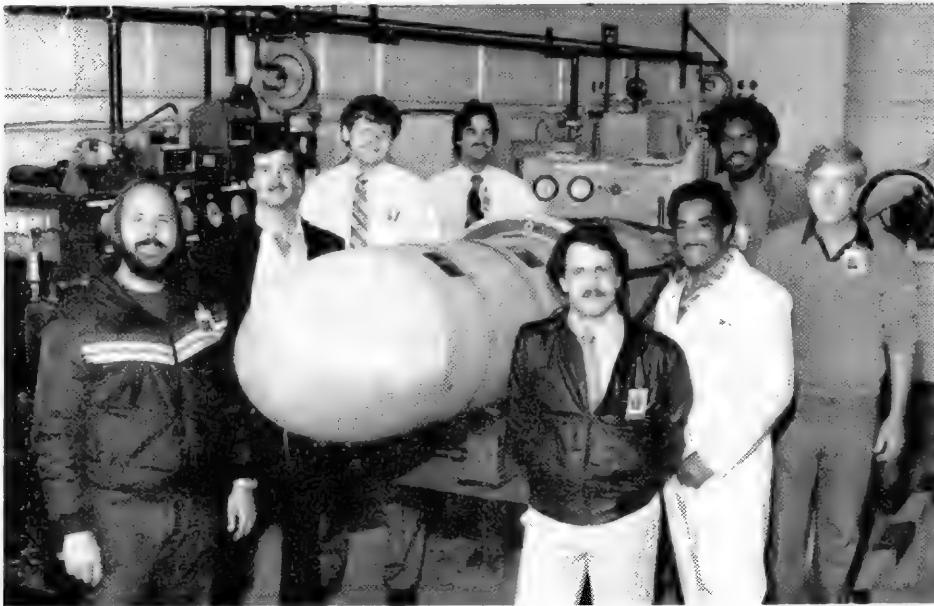
Over 2,500 copies have been distributed to groups in Operations, Quality Assurance, and Research & Engineering. Copies are also being made available to subcontractors, customers, and to other General Dynamics divisions.

The manuals all have serial numbers so that distribution of subsequent revisions can be made easily. Changes in ownership, lost booklets, or individual requests for copies of the booklet should be made to Mary Stewart, 34202, or Anne Johnson, 34199.



Left to right: Tom Phillip, manager—Quality Engineering, holds a copy of the pocket-sized Workmanship Standards Manual as EXCEL awardees Mary Stewart, Bill Posey, Anne Johnson, and Gary Stachwick look on.

OVER



Fuel/Flush Facility Improvements

The crew at the cruise missile fuel/flush facility is proud of their new surroundings. Expansion of the facility is one of many improvements accomplished at Convair in the last year to gear up for increased cruise missile production. The fuel/flush area is essentially a large fuel station for Tomahawks. Crews can flush three missiles at one time, an operation that cleans out the fuel-containing areas of the missile. After the flushing procedure, the crew fuels the missile, weighs it, and sends it on its way to building 5 for the final paint job. The fuel/flush crew in the photo above are (clockwise, from left): Jack Steele, missile mechanic; David Slade, test engineer; Rennatis Stanislovaitis, design engineer; Greg Denton, test engineer; Lloyd Dixon, missile mechanic; Lew Day, inspector; Henry Morrow, missile mechanic; and Mike Barry, supervisor.

Opportunities from NMA

Effective Executive. This four-week course, which begins March 26, is designed for employees with all levels of management experience. The course facilitator is Ted Parsons, 27865. The fee is \$5 for NMA members and \$15 for nonmembers. Meet in KM building 26, 2nd floor conference room, at 4:45 p.m.

Telephone System Changes

- Effective today, Sycamore Canyon will be operating a new Centrex telephone system. All extension numbers will change. See Directory Notice 84-01 for details.
- For Dimension system users at all other Convair locations, the command to activate the data privacy feature will change from 735 to 135.

From the Health-Fitness Center

Palm Springs Health-Fitness Retreat. May 11-13. Registration deadline, April 4.

WORKOUT. Begins March 26. Meets MWF, 4:30 p.m., auditorium.

Rock A'Robics. Begins March 26. Meets MTWTh, 4:30 p.m., room A.

Shape Up. April 2. LF (Harbor Island), 4:45 p.m., KM, 4:30 and 5:00 p.m.

For more information or to register, call the Health-Fitness Center, 39921.

February Retirees

Convair's thanks and best wishes to these employees who retired in February.

Name (Dept.)	Years of Service
Ann H. Anzalone (342-0) Inspector – Fabrication	26
Ralph M. Beard (253-3) Industrial Electrician	23
John W. Beatty (611-0) Development Project Engineer	32
Leon F. Button (268-0) Logistic Support Parts Analyst	39
Donald R. Davis (756-0) Engineering Test Technician	33
Wallace B. Dawson (340-0) Supervisor – QA	28
Terry J. Dykes (454-0) Tool & Die Maker	4

Still Time for Blood Donors to Sign Up

Convair and Western Center employees can still make an appointment to donate blood next week. An active employee participation makes it possible to provide a no-charge replacement service to all employees and their eligible dependents and fill a community need as well. "It Takes All Types" T-shirts will be given to all donors. Call now and make your appointment.

Place

Kearny Mesa, Fire Station – bldg. 6
Call 33820 (Fire Dept.)

Lindbergh Field, Fire Station – bldg. 17
Call 28244 (Fire Dept.)

Plant 19, Trailer outside bldg. 4
Call 28244 (Fire Dept.)

Time

Monday, April 2, 8:00 a.m. to 3:00 p.m.

Tuesday, April 3, 8:00 a.m. to 1:00 p.m.

Wednesday and Thursday, April 4 and 5
8:00 a.m. to 1:00 p.m.

Friday, April 6
8:00 a.m. to 4:30 p.m.

Charles F. Elkins (134-2)

Sr. Industrial Relations Rep 6

Fritz F. Krohn (640-0) 26

Engineering Staff Specialist 26

Alfred Lopez (332-0) 29

Inspector – Quality Control 29

Jean A. Malthaner (117-4) 32

Program Manager – CM 32

John Morrell (268-0) 24

Logistics Administrator 24

Marie G. Murphy (666-0) 31

Secretary 31

James W. O'Connor (042-0) 14

Riveter 14

James L. Page (461-0) 22

Tool Accountability Analyst 22

Robert Pelletier (979-1) 26

Industrial Electrician 26

William J. Stark, Jr. (662-3) 23

Sr. Engineer 23

Lewie E. Starkey (038-0) 41

Missile Checkout–Electrical 41

Curtis J. Tanner (681-0) 31

Engineering Chief 31

Darwin L. Williams (431-0) 32

Manufacturing Engineer 32

Delmer R. Wilson (321-0) 33

Sr. Procurement QA Rep 33

Edward J. Yannaccone (356-0) 27

Sr. Quality Engineer 27

GD WORLD TOURS

Window to the Orient



Remember: The presentation and film on the General Dynamics-sponsored tour to Japan, Hong Kong, and Korea is at the CRA pavilion on Wednesday, March 28. Free refreshments will be served from 4:45 to 6:00 p.m. GD people and an Ask Mr. Foster representative will be there to tell about the tour and answer questions.

Employment

For the week ending March 16, employment was 11,352.

CONVAIR

Weekly Log

April 2, 1984

Published by the Convair Division of General Dynamics



Artist's rendering of the space-based orbital transfer vehicle.

Space Programs Awarded New Contract R&D Study

OTV Study. Convair was recently awarded a new contract from Aerojet and NASA-Lewis Research Center to study oxygen-hydrogen propulsion requirements and space-basing and man-rating capabilities for the orbital transfer vehicle. Bill Ketchum, Advanced Space Programs, is the OTV project manager and leader for the study. This week, Bill and other Convair engineers are attending an OTV Propulsion Issues conference at NASA-LeRC. Bill is a panel speaker at the conference, representing Convair in the industry/government team for NASA's new cryogenic OTV propulsion initiative.

Technical Publications Support Now at Lindbergh Field

A Technical Publications support group is now located at Lindbergh Field in building 5. The group provides word processing, typing, illustration, and ed-

iting services for reports, contractor data requirements lists, and other documentation. For information on how to obtain these services, call Pamela Chapel at 27611.

Convair Wins Corporate Safety Award

Congratulations to all Convair employees for earning the corporate "Certificate of Achievement for Excellence in Safety Performance for 1983." This is the tenth straight year that we have compiled a safety record significantly better than the national average for similar industries, and have conducted an active and comprehensive program that minimizes potential loss due to fire, safety, or health problems exceeding corporate standards. Our continued effort to be aware of safety will continue this outstanding record in 1984.

Small Business Department Asks for Your Input

The Small Business department talks every day with area businesses classified as small, small disadvantaged, or women-owned in an effort to help qualify firms having products or services that benefit General Dynamics. If you know of a small business that might qualify, call the Small Business department at 28382.

PLFCU Reminder

Point Loma Federal Credit Union reminds members that they can open an IRA account up to April 15 and take the maximum deduction on 1983 taxes. Stop in or call PLFCU at 226-1600 for more information.

Blood Drive Begins Today Remember Your Appointment

Place

Kearny Mesa Fire Station — bldg. 6
Call 33820 (Fire Dept.)

Lindbergh Field, Fire Station — bldg. 17
Call 28244 (Fire Dept.)

Plant 19, Trailer outside bldg 4
Call 28244 (Fire Dept.)

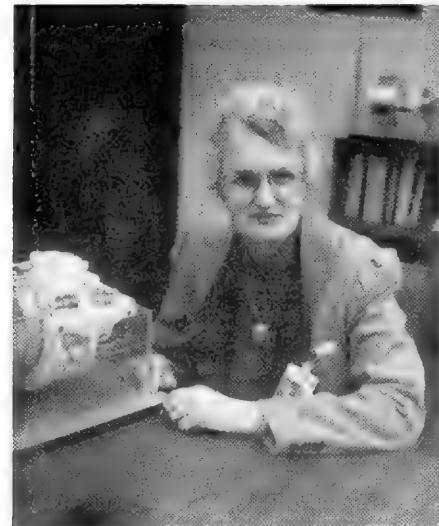
Time

Monday, April 2, 8:00 a.m. to 3:00 p.m.
Tuesday, April 3, 8:00 a.m. to 1:00 p.m.

Wednesday and Thursday, April 4 and 5
8:00 a.m. to 1:00 p.m.

Friday, April 6
8:00 a.m. to 4:30 p.m.

Pick up your "It Takes All Types" T-shirt when you donate.



Joan Sherley: 1984 Tribute to Women in Industry Award Winner

Joan Sherley, NASA missions manager for the Shuttle/Centaur program office, will be honored on May 11 at the Tribute to Women in Industry luncheon sponsored by the YWCA of San Diego County. The event will recognize 88 San Diego area women for their excellence in management, executive, or professional roles.

Joan has worked in Space Programs at Convair for 29 years. She began her career working as an engineer on the Atlas and Centaur programs. For the past ten years, she has been in the program office as a project engineer managing the integration of various NASA spacecraft on Atlas/Centaur and Titan/Centaur expendable launch vehicles.

She has primary responsibility for managing division resources to integrate the Galileo and International Solar Polar spacecraft on the Centaur high-energy upper stage for launches from the space shuttle in May 1986.

Just a Reminder: Please drop Convair return-to-sender envelopes into the outgoing mail as soon as you receive them. Envelope recycling is a quick and easy way to keep costs down.

OVER

Announcing: The Great Talent Search Third Edition

Convair is pleased to announce the Third Edition of the "Great Talent Search" employee referral program. Here's how the program works.

What is the program all about?

The Great Talent Search is designed to recruit and hire the experienced, professional people who are vital to our continued growth. Special awards are made for referring and hiring experienced engineers and scientists, called "special target positions."

What kinds of referrals are eligible for award?

- All people referred must be U.S. citizens.
- All people referred must have a minimum of three years of professional work experience relevant to Convair's needs.
- Employees of other General Dynamics divisions are not eligible.
- Individuals cannot refer themselves. Referral must come through a Convair employee.

Who is eligible to submit a referral?

All Convair employees (including retirees) can submit a referral. Not eligible are division staff, their staff members, or those involved in the employment decision process.

How do I start?

Consider your friends, relatives, or business acquaintances who might qualify for a position listed as a "special target position" in the GTS brochure. Then submit your referrals' names on cards contained in special posterboards throughout the Kearny Mesa, Lindbergh

Field, and offsite facilities. Simply fill out the form and drop it in the inter-office mail. Attach a resume and/or application, if available.

Is it necessary to provide all the information listed on the form?

Yes. Processing a submittal is much faster when all the information is included. The referral's complete address and your mail zone is especially important. This information is needed to send out applications to the referral and to keep employees informed about the status of their referrals.



What's in it for me?

Every name you submit is rewarded, and there is no limit to the number of names you can submit. After Professional Staffing has received a resume and/or application, they will decide if the person meets the established criteria. If it is a "special target position" referral, you are automatically eligible to receive a metric conversion or standard calculator for each submittal. Referrals for "other professional positions" (Finance, Operations, Contracts, etc.) receive a Great Talent Search coffee mug.

Security is Everyone's Job

Each Convair Division employee who holds a security clearance is responsible for protecting classified material.

- Classified material must be under the direct control of the user or locked in an authorized container at all times.
- "Need-to-know" must be verified before releasing classified information. Check with your security representative or supervisor.
- Challenge unauthorized personnel who enter your working area when classified work is in progress.
- Process all incoming or outgoing classified material through your document control station.

- Mark classified information with the appropriate classification as it is generated.

Keep the security of classified information first and foremost in your mind at all times.

The Weekly Log is published by Industrial Relations for employees of General Dynamics Convair Division. If you have stories of interest for Convair people, call Julie Andrews, 39955, or send them to MZ 33-1334.

Managing Editor . . . Julie Andrews
Production Editor . . . Nancy Mumford
Design/Layout . . . Peter Urban

What happens when my referral starts working at Convair?

If your referral is hired into a "special target position" and also meets all the Great Talent Search criteria, you may choose from a category of awards including movie projectors and stereo cassettes, once your referral starts work. When your referral completes 90 days of satisfactory employment, you receive a second merchandise award from a category of awards including microwave ovens and color TVs.

You also have the option of bypassing these categories to earn a bigger merchandise award. Merchandise awards also increase in value for employees whose referrals produce more than one hire, with no limit on the number of hires from one employee's referrals.

The employee who refers the most hires for "special target positions" during the Great Talent Search Third Edition will earn the top merchandise award available.

If your referral is hired into "other professional positions," you are eligible to receive a metric conversion or standard calculator once your referral starts work.

How will I know the status of my referrals?
Professional Staffing keeps participants up-to-date about the status of referrals.

How successful has the program been?
Due to your success in seeking out "great talent," Convair hired over 250 new people during the GTS Second Edition. The Third Edition promises to be even more exciting with the program's expanded participation and awards. Discover the Great Talent Search and see how your efforts can pay off.

From the Health-Fitness Center

Lecture: Burnout. Dr. Harvey Selverston. April 26, 4:30 p.m., room A.

Palm Springs Health-Fitness Retreat. May 11-13. The registration deadline is April 4.

Shape Up. April 2, LF, 4:45 p.m. (Harbor Island); KM, 4:30 and 5:00 p.m.

Other April programs. Assertiveness Training begins April 3. Biofeedback begins April 16. Smoking Research Institute begins April 17.

For more information or to register, call the Health-Fitness Center, 39921.

Employment

For the week ending March 23, employment was 11,365.

CONVAIR Weekly Log

April 9, 1984

Published by the Convair Division of General Dynamics

Convair QUALITY STARS



Merline Chambers (right) shares expertise freely with fellow employee Sharlene Me sick, an engineering release analyst.

Ask Merline Chambers what her personal work philosophy is and she replies, "Pride in my work. I need to feel that what I do is important."

Betty Upton, PADR supervisor (Parts and Data Record), is quick to agree and express appreciation for Merline's outstanding performance as an engineering document analyst in her group. Merline is an expert in the PADR system, the huge engineering data base required to define complete product descriptions for every Convair end item.

According to Betty, Merline's performance is over and above the call of duty. She often acts in Betty's behalf by attending meetings, answering questions about PADR, and training new people in the department. She also communicates with people outside her department so that they can better understand PADR system requirements. This is especially helpful to new employees, who must learn quickly to work effectively with our systems.

Merline has worked in the Engineering Release group since 1960, and has gained a large store of knowledge that enables her to identify errors in release packages as

well as system problems within the PADR data base. She will take this expertise with her into her upcoming assignment as the PADR group representative in the Master Parts List program startup, which is a major business systems improvement at Convair that will incorporate PADR with other Operations computer data bases.

When Betty Upton finishes telling about all of Merline's accomplishments, she sums it up by saying, "She just excels in everything she does!"

Congratulations to this Convair Quality Star!

People who listen to San Diego Padres baseball games are familiar with the expression, "You can hang a star on that one!" when a player makes an especially good play. The Weekly Log is borrowing from that expression to tell about some Quality Stars at Convair; those people who are outstanding because of consistent, high-quality work, positive attitude toward co-workers, and dedication. Supervisors: if you have a person you would like profiled as a Convair Quality Star call Weekly Log editor Julie Andrews at 39955.

Security Tip

Accounting for and controlling classified documents is one of the most important aspects of Convair's security program. All incoming or outgoing classified material must be processed through a Document Control Station. Document Control Station personnel prepare classified document control records or appropriate receipts and give the material to the authorized recipient. Ask your security representative if you have questions concerning classified material control procedures or the location of your Document Control Station.

Window to the Orient

Special Tour Preview with Jim Trapp, Korean Air Lines, Ask Mr. Foster and GD employees.

April 17 • CRA Pavilion • Door prizes • Travel bargains display

Refreshments served starting at 3:45 p.m.

Presentation from 4:45 to 6:00 p.m.

Special tour cost is up to 29% less than comparable tours.

Come and bring a friend!

Convair Awarded Large Space Structures Contract

Convair has been awarded a contract by the Aeronautical Systems Division of the Air Force to develop precision structural composite joints for large space structures. Two baseline systems will be used in contract performance. The first is the Structural Assembly Demonstration Experiment (SADE) linearly deployable beam developed by the NASA Marshall Space Flight Center. The second baseline configuration is the GEO-truss, a deployable space-based radar developed by General Dynamics. The three-year program will involve design, analysis, fabrication, and testing of both resin matrix and metal matrix composite joints, and will culminate with the delivery of prototype components to the Air Force. This contract is part of Convair's overall technology development objectives to support a permanently manned space station, space-based radar systems, communications satellites, and defense surveillance satellites. Congratulations to Andy Robertson, proposal leader, and the entire team.

TOMAHAWK SCOREBOARD

On April 3, land-attack nuclear missile T293:1 was successfully launched from TEL 4 at the Utah Test and Training Range, flew a typical GLCM mission, and was recovered. This was the second flight of the GLCM Follow-on Test and Evaluation program. The third GLCM FOT&E flight followed on April 5. T294:1 was also a successful flight at UTTR.

Tomahawk Production Update. We delivered 13 production Tomahawks in March including number 100, our first production submarine-launched land-attack nuclear missile. These deliveries bring the total production missiles delivered to 106. Other missiles in the March total include six GLCMs, two submarine-launched conventional land-attack missiles, and four surface-launched antiship missiles. The latter two are equipped with range safety equipment to support antiship missile operational evaluation flights from USS *Merrill*.

OVER



At Lindbergh Field, front (left to right): Ron Bradley (Dept. 253), Debbie Chance (220), Larry White (300), Mike Zaragoza (036), L.A. Goodyear (036), M.A. Gross (220), Shirley Pierson (280). Back: Joe Mitzel (358), Robert Brent (341), Roland Thomas (001), Leon Meaux (346), Danny Newby (346).

First Quarter Employee Suggestion Drawing Winners

Ray Underwood of Department 028 at Lindbergh Field is the lucky grand prize winner in the first quarter Employee Suggestions drawing. He won a trip for two to San Francisco on PSA's Great Escape package.

Twenty-five people won special GD Convair sport shirts and visors. Their names were picked from among 1,100 employee suggesters in the first quarter of 1984. These winners' names will go into a special year-end drawing for all quarter winners in 1984.



At Kearny Mesa, front (left to right): Fred Morghen (Dept. 400), Barry Taylor (038), Bob Naish (038), Tom Scanlan (031), Colonel Roach (761), Vern Davidson (637). Back: M. Flores, Jr. (363), Phil Baker (431), Marisa Leong (235), J.R. Metcalf (235), Dan Ailshire (352), Walt Jenson (038), Brad Elter (031), Greg Lu-cero (198).

Ken Lake, division vice president-Operations, spoke to the winners at Lindbergh Field and expressed his appreciation for the positive attitude that motivated them to share their good ideas. Reggie Sanchez, manager-Quality Control, echoed that appreciation to the Kearny Mesa winners and said that good ideas are sought not only by Convair but by all General Dynamics divisions as a corporate effort.

Employee and management involvement is the key to a successful program:

- More and more, employees are talking to their supervisors about their good



Ben Broussard of Department 985-1 (middle) was the winner in the Employee Suggestions first quarter drawing at Vandenberg AFB. He is congratulated by Ruth Hecker, coordinator of Employee Suggestions at VAFB, and Chuck Harter, base manager.

ideas in order to work together to get them implemented.

- Employee Suggestions analysts are piloting committee meetings with selected supervisors and evaluators; as a result, many suggestions are being turned around in less than 10 days.
- Many employees thought it was a good idea to "Think Quality, Then Suggest" in the first quarter. Over 1,100 suggestions were submitted, an 83% increase over the first quarter of 1983.

Remember: Everyone is eligible to participate in Employee Suggestions.

Convair Hosts Corporate Configuration Management Conference

General Dynamics division representatives attended the second corporate Configuration Management Conference at Convair March 29 and 30 to discuss ways of increasing productivity through the exchange of ideas about configuration status accounting systems. Division attendees were Convair: Gerry Smith, Tom Samaras, John Collins. Electronics: Glen Denton, Duane Engbretson. Fort Worth: Tom Holland, Ed Polasek. Pomona: Dick Rumble. Land Systems: Tom Ventitelli, Jim Kalich, Roy Ziemann, Norm Dyer. Camden: Jack Slavin. DatagraphiX: Derrick Dukes.

Value Engineering Graduates Present Cost-Saving Proposals

Eight teams participated in value engineering presentations on March 23 at the close of two weeks of training. Dan Da Pra, division vice president-Research & Engineering, and Capt. John McKechnie, DCASPRO, presided at the graduation and urged participants to go back to their

workplaces and share their new knowledge. In particular, Da Pra focused on the link between value engineering and division goals.

Value engineering teaches how to cut costs that don't contribute to the value of an item. To do this, engineers focus on the function of a part, and then work on how to provide that function at the lowest cost. Class attendees tackle projects from actual Convair programs.

The "value" of value engineering was illustrated by the estimated cost savings calculated by the eight teams: \$15,214,000 for a 19.7% saving over present estimated costs.

From the Health-Fitness Center

April Programs

16	Biofeedback Lecture
17	Stop Smoking Seminar
24	YogaFitness Relaxation Techniques Tai Chi
25	JazzXercise WORKOUT
26	Burnout Lecture

Plant 19 Maintenance Dispatch

Formerly	Now
25675	26675
Use the new number for trouble calls and equipment repair requests.	

NMA Sports Night

Sports Night is the theme of the April 19 NMA Convair Chapter meeting, which will be held at the Hilton in San Diego. Larry Himmel, News 8 commentator, will be the featured speaker. Local professional and collegiate athletes will be special guests. The social hour begins at 5:00, dinner is at 6:00, and the program starts at 7:30 p.m. The ticket prices are \$9.50 for NMA members; \$15 for nonmembers. Seating is by reservation. Call Gloria, 34238, for your table number, and be sure to specify smoking or nonsmoking. Ray Molina, director - Quality Assurance, is the executive host.

Employment

For the week ending March 30, employment was 11,340.

CONVAIR Weekly Log

April 16, 1984

Published by the Convair Division of General Dynamics

Second Quarter Employee Suggestions Promotion Begins

Employee Suggestions: Tools for Productivity is the theme of the second quarter of the special 1984 promotion. People who share their good ideas during April, May, and June will receive a gift item compliments of the Employee Suggestion program. They will also be eligible for a drawing in June that includes a trip for two to Orlando, Florida and Disneyworld as a grand prize. Remember, the gift item and drawing are just for sending in a suggestion. Your suggestion will be evaluated for possible cash award — up to 10% of the first year net saving to Convair — through the regular process.

The good ideas of 56 suggesters were rewarded during March. Forty-four people received awards of up to \$200, and 12 shared awards of \$200 and over. Award winners of \$200 and over are:

Name (Dept.)	Amount (\$)
Francisco Amezcua (362)	214
V.E. Cole (038)	671
Dennis Combs (036)	428
Jimmie Curtis (043)	266
Ron Devin (835-4)	499
Carolyn Dickenson (263)	223
R.L. Green (253-3)	233
F.M. Hadaway (281-4)	373
Daniel Hans (269)	210
William Joseph (759)	435
Harry Shidner (019)	465
Raphael Underwood, Jr. (028)	367



Ray Underwood (second from right) was the lucky winner of the first quarter Employee Suggestions drawing grand prize: a trip for two to San Francisco. On hand to congratulate him were Chris Powers, Ron Rousey, and Larry Mattson.

Convair Hosts All-Up Round Program Review

Chaired by Joint Cruise Missile Project director, Rear Adm. Steven J. Hostettler, the Tomahawk All-Up Round program review concluded April 11. During the two-day meeting, 130 Tomahawk associates and contractors heard presentations summarizing the status of all aspects of the program. Convair's host for the program review was Mike Keel, division vice president — Cruise Missiles.

Advanced Energy Systems Experiment Flies on STS-11

Convair's Survivable Large Aperture Trough System (SLATS) concentrator moved closer to eventual deployment with the eleventh shuttle flight that began April 6. The SLATS concentrator is a device that converts sunlight into electricity using a series of ingeniously designed curved mirrors. Twenty mirror samples, representative of our proposed SLATS mirrors, are enclosed in NASA/Langley's long-duration exposure facility that was deployed into space by the shuttle. The LDEF contains 57 experiments that will be tested for the effects of atomic oxygen, micrometeorites, unfiltered sunlight, and other environmental factors. The Convair mirrors are made of materials such as titanium, copper, aluminum, steel, and graphite composite. A number of different coatings were applied to determine the best combination for use in space.

The LDEF will stay in space for almost a year and then will be retrieved by the shuttle — in the same way the shuttle captured Solar Max — and brought back to earth in February 1985. Testing by both NASA and Convair will determine mirror survivability in space.

We are presently under contract to provide seven SLATS concentrator working models to NASA. The work is being done by the Space Power group in Advanced Energy Systems.

Security Advisory

Our Security and Investigations staff is having difficulty processing last-minute outgoing classified visit requests because of increased classified visit activity. Plan classified visits well in advance; allow 10 to 20 days for processing, particularly if

the contracting officer's approval is required. In emergency situations, visit requests may be transmitted over the phone by Security and Investigations. Be sure to submit your request as soon as an emergency becomes evident and include your telephone authorization number if the visit request has to be called in.



Representatives of the owners and operators attending the twin-engine aircraft meeting (left to right): Bill Bullock, chief — Aircraft Logistics Support, Convair; Jim Duke, Allison Division of General Motors; Col. Bob Kershner, 111th Tactical Air Support Group; Master Warrant Officer Jack Robillard, Canadian Armed Forces; Jack Carroll, Hamilton Standard; Harold Henn, Republic Airlines.

Convair 340 and 440 Still Going Strong

Between 1952 and 1957, Convair built two twin-engine aircraft — the 340 and 440 — that have had a long and durable life. On April 4 and 5, nearly 130 owners and operators of Convair 340s and 440s gathered in San Diego for a conference hosted by our Aircraft Logistics Support Department to discuss maintenance and supportability of the Convair fleet. Over 550 of the aircraft are still in service, including 18 in the Republic Airlines fleet — the largest original in-service group. U.S. Air Force and Navy, and Canadian armed forces representatives also attended the conference.

During the conference, the Allison Division of General Motors presented a new conversion for the twin-engine aircraft. This modification, along with new propellers from Hamilton Standard, should extend the life of these hard-working aircraft even more.

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New Cyber Computer and Operating System

Data Systems Division - Western Center has announced the installation of a second Cyber computer system. The new System 170/855 began pilot operations for key users on Monday, April 2, using the NOS 2.2 operating system. The system is available for general use beginning today. For further details, pick up a copy of *Cyber Newsflash No. 184* at the customer service counter, K M building 4, col S- 26.

NOS 2.2 classes will be held weekly, beginning April 18, for current NOS/BE users. Registration forms are on the back of *Newsflash No. 184*. Classes for new Cyber users will begin in May. Your supervisor must submit an AVO to request training. Include your name, department, mail zone, and extension on the AVO, and send it to Jack Wood, MZ 42-5501.

Bring a Friend to the Window to the Orient Presentation

GD World Tours is offering an exclusive Oriental tour package to General Dynamics employees, retirees, and their families at a savings of up to 29%. The price of the 16-day tour to Korea, Japan, and Hong Kong includes round-trip air fare, first-class hotel accommodations, an Ask Mr. Foster tour guide, and more. Jim Trapp, Korean Air Lines representative and Ask Mr. Foster and General Dynamics representatives who have taken the tour will offer firsthand information at a special presentation in the CRA pavilion on Tuesday, April 17. There will be displays showing the many shopping bargains available in Korea, visa and passport information, door prizes, and refreshments and snacks beginning at 3:45 p.m. The presentation begins at 4:45. If you can't attend the presentation and would like specific details about the Window to the Orient tour, call our Ask Mr. Foster representative, Vivienne Seymore, at 560-1217.



NMA Sports Night

Sports Night is the theme of the April 19 NMA Convair Chapter meeting, which will be held at the Hilton in San Diego. Larry Himmel, News 8 commentator, will be the featured speaker. Local professional and collegiate athletes will be special guests. Dinner is at 6:30 and the program starts at 7:30 p.m. Ticket prices are \$9.50 for NMA members; \$15 for nonmembers. Seating is by reservation. Call Gloria, 34238, for your table number, and be sure to specify smoking or nonsmoking. Rudy Molina, director - Quality Assurance is the executive host.



Great Talent Search Second Edition Winners Announced. James MacDonald, engineering specialist (left), and Ernest Gravelle, senior engineer (right), are the top award winners in the Great Talent Search Second Edition. Gravelle won for referrals resulting in the most hires. MacDonald originally came to Convair through the GTS program. He won for submitting the most engineering referrals, a total of 18. Both will select their awards from the top categories of merchandise awards in the program. On hand to congratulate the winners were Nancy Kimerly, Professional Staffing administrator, and Becky Godfrey, Great Talent Search program administrator.

1984 'Convairversations with Management' Begins

'Convairversations with Management' is a series of 11 one-hour sessions, each conducted by a Convair executive staff member who presents a brief summary of his organization and its overall relationship to the division. At the end of the presentation, lively question-and-answer sessions follow. This innovative program is sponsored by the NMA Convair Chapter and is open to all employees, free of charge. April 26 is the first session with General Manager John McSweeney presenting "Convair 1984." It's in the Kearny Mesa building 2 presentation room from 4:30 to 6:00 p.m. Call Jane Duby, 35608, to sign up. Be sure to attend. There's no better way to learn about our division's overall operations.

This Week at the Health-Fitness Center

Biofeedback. A free lecture will be presented by Aleene Dorne, M.S. on how biofeedback is used to control stress-related disorders. April 16, 4:30 p.m., CRA room D.

Stop Smoking. The Smoker's Research Institute will present a free seminar on smoking reduction and cessation. April 17, 4:30 p.m., CRA clubhouse.

Special Event: STRESS FAIR. Presentations in yoga, massage, biofeedback, nu-

trition, Tai Chi, and more. April 20, 11:00 a.m. to 1:30 p.m., CRA auditorium. Free.

For more information, read the *CRA Newsletter* or call the Health-Fitness Center, 39921.

Professional Opportunities

Personal Skills for the Manager is one of three courses offered to prepare you for the Certified Manager exams. The facilitator will be George Brown. The class begins April 24. The cost is \$10 for NMA members and \$20 for nonmembers. Register with Julian Jaeger, 34385.

Xerox Memorywriter Users:
Clip and Save these IMPORTANT NUMBERS.

Your Memory writer serial number _____

Convair service 28047

Xerox Hot Line 800-527-0161

Jan Stapp

Xerox training rep 574-1000x192

Printwheels available at Convair Stores:
Letter Gothic 15, Letter Gothic 12, Orator (10), Engineering symbols, proposal spacing (PS), boldface.

Employment

For the week ending April 6, employment was 11,359.

CONVAIR **Weekly Log**

April 23, 1984

Published by the Convair Division of General Dynamics



Carl Peters, 1983 Employee of the Year, and his wife Maureen accept congratulations from General Manager John McSweeny.

**Carl Peters:
Employee of the Year**

Carl Peters, a program manager in Advanced Programs, has received the 1983 EXCEL General Manager's Award, the highest recognition a Convair employee can receive. The announcement was made by John McSweeny at the NMA Convair Chapter meeting on April 19.

Peters began his career at Convair 27 years ago in the Atlas Propulsion Design group. In subsequent years, he has made outstanding contributions to a number of design studies and proposal efforts, among them a study in the late 1960s to use Centaur as an upper stage for the shuttle — the initial step leading to our present contract to build two Centaurs to launch planetary missions from the shuttle in May 1986.

In the 1970s, he led studies on the orbital transfer vehicle and was manager of the successful midcourse guidance demonstration proposal, which resulted in significant new business for Convair.

Most recently, he was the proposal leader for a major new program in Advanced Programs. He led the team through two full-scale development and production option proposals. Both times, we won the competition, and the final result was a major new contract.

His contributions to this effort were cited specifically in his nomination:

"Carl's outstanding leadership and his capability to get the job done under the most severe conditions of schedule and work load . . . his organized and thorough manner, and his attention to detail produced a winning effort."

McSweeny to Speak at First Convairsations Session

Convair Division has over 11,000 employees. Have you ever wondered what it's like to be the head of such a large operation? Here's your chance to find out. On Thursday, April 26, General Manager John McSweeny will talk about overall division operations at the first "Convairsations with Management" session of 1984. Sponsored by the NMA Convair Chapter, this is the first in a series of 11 programs, each led by a division staff member. All sessions conclude with a question-and-answer period, which provides a unique opportunity for two-way communication between employees and top management. All sessions are free and open to all employees simply by calling Jane Duby, 35608, to reserve a spot. The first Convairsation will be held in Kearny Mesa building 2 presentation room at 4:30 p.m. (Call for your reservation soon; this session is always in great demand.)

**Convair
QUALITY STARS**



In the photo above, Kevin Jensen reads a blueprint for an installation in the Atlas/Centaur thrust section. The thrust section shown in the background has a work platform that is used for launch vehicle mechanical installations.

Kevin Jensen

The complex mechanical systems of the Atlas and Centaur rockets are a far cry from the lawnmowers Kevin Jensen used to tinker with as a boy. But nine years of both Army and civilian mechanical experience, three years of launch vehicle assembly experience, and an attitude described

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as "constant can do" have combined to create a valuable Convair team member in Kevin Jensen.

Kevin is a missile mechanic in the Atlas/Centaur final assembly docks in Kearny Mesa's building 5 and works on all launch vehicle mechanical installations. To his supervisor, Jim Hanchett, Kevin is a Quality Star for many reasons. Besides his positive attitude, he is willing to help others and to share his knowledge with new employees. He is an active member of his department's Quality Circle and has taken it upon himself to learn the interface work with Rocketdyne, the primary engine supplier for our launch vehicles.

The biggest challenge in his job, Kevin says, is the missile mate process — when the booster section comes together with the main sustainer. Another major challenge is understanding the big picture — how all parts and systems relate — and then being able to recognize any detail, no matter how small, that might become a problem down the road.

Kevin and his co-workers are ever conscious of the quality standards they work under, knowing that the vehicles they build carry multimillion dollar payloads, leaving no room for error.

It's easy to stay interested in his job, Kevin says. "There's something new all the time. We're fortunate in being able to see the end product." Successful launches are "four-for-four" since he started at Convair, Kevin states proudly.

Finally, what motivates him to do outstanding work?

"It comes from inside," Kevin says, "If I do something halfway, I'm not happy. If something goes wrong at work, I'm not happy when I get home. But if I learn something new every day, I'm happy."

His work has been commended by both the Program Office and NASA, as well as his immediate supervision. But the ultimate endorsement is that his peers were the first to nominate him for a Quality Star.

Congratulations to this star who really stands out and shines!

The Great Talent Search Goes On
Response to the third edition Great Talent Search employee referral program has been enthusiastic. To date, over 120 cards have been received by Professional Staffing and applications are currently being processed toward getting referrals onboard. Remember, you receive a metric conversion or standard calculator for referring a qualified engineer with professional work experience. Cards can be found in the major vending areas at all facilities.



*Over the years, Convair photographer Pete Autio has been taking special photographs to illustrate the changeover to daylight savings time. This year he asked Dee-Dee Adams of Department 637 in Kearny Mesa building 4 to help the Weekly Log remind everyone that daylight savings time begins at 2:00 a.m. Sunday, April 29. Remember to set your clocks **AHEAD** one hour. Dee-Dee is an electronics technician but says you're on your own if you have a digital watch you don't know how to set.*

Security News

The Security and Investigations department has placed security training at the top of their priority list for 1984. To help meet this goal, "The Weakest Link," a film produced by the Motion Picture and Television department, has been completed and screenings will begin for all division departments before the end of the month. The film, based on the new Convair Security Handbook, illustrates security situations we face daily when working on classified projects. The handbook, which was prepared by Security and Investigations, is in the final stages of production. Bob Rodriguez will be contacting supervision to schedule departmental training.

This Week at the Health-Fitness Center

Relaxation Techniques. April 24, 4:30 p.m. CRA room B, \$5.

Tai Chi. April 24, 4:30 p.m., Missile Park.

Yogafitness. April 24, 4:45 p.m., Missile Park.

WORKOUT. April 25, 4:30 p.m., CRA auditorium.

Jazzercise. April 25, 5:30 p.m., CRA auditorium.

Speaker of the Month. Harvey Selverston will present a lecture, "Avoiding Burnout," April 26, at 4:30 p.m., in CRA room A. The fee is \$2.

For more information on Health-Fitness Center programs and classes or to register, call 39921.

Supervisors Cooperate to Reassign Surplus Personnel

Good employees, properly placed, trained, and effectively supervised, are General Dynamics' fastest growing asset.

In keeping with this philosophy, the Employment department at Lindbergh Field has been making a strong attempt to deal with a common occurrence in the aerospace industry — that is, reductions in work force because of business cycles.

When the Employment department receives notice of potential layoffs, they immediately go to work by pulling the records of the affected employees to identify skills they have that are applicable to other jobs at Convair. Employment representatives also meet in person with the employees to identify skills that may not be a part of their permanent record. Then the representatives work with department supervisors who have open personnel requisitions to reassign those people whose skills match up with available jobs.

"It doesn't make much sense to have people coming in one door and people going out another," says Steve Woolley, supervisor of Employment at Lindbergh Field. "Even though it sometimes means that employees are placed temporarily in a lower job classification, we will work toward saving all employees scheduled for layoff."

The save record since December 1983 shows the positive results of this effort. Sixty-five percent of layoffs were averted. Of the remaining 35%, some elected not to be reassigned while others have since been rehired.

"We look at keeping people on the payroll as one of our main responsibilities," states Woolley, "and we appreciate the cooperation of all departmental supervisors who are helping us in this effort."

Bus Pool Openings

Bus pool openings are available for Lindbergh Field and Plant 19 employees on the 7:00 a.m. to 3:30 p.m. shift who commute from El Cajon. Morning pickup points are the Pinnacle Peak Restaurant and the intersection of Mollison and Madison. Call Bruce Smith, 579-5236, or Everett Shackleton, 28723 or 449-2389, for details.

Professional Opportunities

Personal Skills for the Manager. One of three courses offered to prepare you for the Certified Manager exams. The facilitator will be George Brown. The class begins April 24. The cost is \$10 for NMA members and \$20 for nonmembers. Register with Julian Jaeger, 34385.

Employment

For the week ending April 13, employment was 11,384.

CONVAIR Weekly Log

April 30, 1984

Published by the Convair Division of General Dynamics

1983 Employee of the Year Nominees

Last week, Carl Peters, program manager in Advanced Programs, was named 1983 Employee of the Year. He received the EXCEL General Manager's award for his leadership in winning a major new program for Convair Division. Six other Convair employees were finalists out of all employees nominated for this award, the highest recognition the division makes to individuals. Their outstanding achievements make them all winners in their own right.

Joni Boutelle, accounting analyst-Finance (Department 190). Her nomination cites her exceptional ability to meet critical schedules and deadlines and her innovative and creative contributions to her department. Specifically, she was responsible in 1983 for the final resolution of liability claims against Convair because of a disapproved property control system. Her professional approach and diligent preparation enabled her to negotiate a satisfactory settlement.

Dave Desch, reliability engineer-Quality Assurance (Department 330). Dave demonstrated superior leadership and technical ability in the field of failure analysis. His support of the Cruise Missile program and the corrective actions he initiated were instrumental in Tomahawk's series of 14 consecutive flight successes in 1983.

Jim McIntyre, operations manager-Avionics Test and Assembly (Department 050). Jim's knowledge and contributions to the Cruise Missile Production program are described in his nomination as "superior in every respect." Under his leadership, Department 050 achieved massive quality, schedule, and performance improvements in 1983, including significant increases in realization and test yields and reductions in rework and nonconforming costs.

Jerry Owen, chief-Engineering Test Labs (Department 637). Jerry was nominated for his special assignment leadership of ground-launched cruise missile hardware testing, sell-off, and modifications. His contributions were instrumental in the on-schedule initial operational capability of GLCM in Europe in December 1983.

Anne Rowe, estimating specialist-Contracts & Estimating (Department 111). Anne was nominated for her development of program estimates and cost volumes for a major new program at Convair. Her ability to lead and direct this very important aspect of the proposal process was a major contribution to our success in winning the program.

Bill Strobl, program manager-Advanced Space (Department 953). Bill was nominated for his leadership and management achievements in developing the next-generation Atlas/Centaur, which involved the organization and performance of a highly technical engineering effort, generation of cost estimates, and coordination and direction of associate contractors and major suppliers. His outstanding performance contributed to this major new business activity for Convair.



Bill Rector (right) presents Chuck Wilson with a special Centaur G and Centaur G-Prime model in appreciation for his important part in Shuttle/Centaur.

Chuck Wilson Honored for Shuttle/Centaur Leadership

Program director Chuck Wilson led the successful effort to secure the Shuttle/Centaur program for Convair Division and headed the program until his retirement last September. At a special ceremony during last week's division staff meeting,

he was honored by General Manager John McSweeney and Division Vice President Bill Rector for his dedication and leadership in this important program acquisition. Chuck was presented with specially mounted models of both the Centaur G, which will be used primarily for military missions, and the Centaur G-Prime, which will first be used to launch the Galileo and International Solar Polar Mission spacecraft in May 1986.

Though he is retired Chuck, occasionally puts on his "working clothes" to assist Convair proposal review teams.

McSweeney Leads Off 1984 'Convairsations with Management' Program

A capacity audience heard General Manager John McSweeney present "Convair 1984" at the first "Convairsations with Management" session, April 26. McSweeney presented a comprehensive overview of Convair production, development, and "probe and thrust" programs and related facilities and staffing efforts. The presentation was followed by a candid question-and-answer period.

The second Convairsation will be with Dan Da Pra, division vice president-Research & Engineering, on Thursday, May 10, from 4:30 to 6:30 p.m. in the building 2 presentation room at Kearny Mesa. Call early for your reservation: Jane Duby, 35608.

Security News

Supervisors and cleared employees are reminded to plan classified visits well in advance and to submit Visit Request (Form A468) to Security and Investigation early.

- Some contractors and customers take a week or more to process Convair visit requests after they are received.
- Visit requests that require the contracting officer's approval take up to 20 days to process.
- Overseas visit requests take up to 45 days to process.

Outgoing classified visits continue to increase along with our classified activity. Complete your requests correctly and allow Security and Investigation sufficient lead time for processing.

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Blood Donors Top Record

Last month's blood drive was the best yet. Seven hundred thirty units of blood were donated, which surpassed last October's record drive by 37 units. Many thanks to all who donated.

All Convair employees may apply for blood units for themselves and eligible dependents. If this becomes necessary, remember to bring your invoices from the Blood Bank to the Employee Benefits office or mail them to MZ 50-1311 so that units from the Convair Reserve Fund can be credited against those units used. The next blood drive is scheduled for October 1 of this year.



Convair Division has won the corporate Gold Award for Best Savings Bond Campaign in the corporatewide 1983 U.S. Savings Bond drive. We won on the basis of the 93.2 percent employee participation and the innovative campaign based on a competition between Lindbergh Field and Kearny Mesa teams. At a special appreciation event held last week, General Manager John McSweeney presented the corporate Silver Award for Volunteer of the Year to co-winners Jodie Manuel (top), a secretary in Material Operations at Lindbergh Field, and Lorraine Place (bottom), an executive secretary in Cruise Missile Production at Kearny Mesa. In making the presentation, McSweeney said the key to our successful campaign was the dedicated volunteer work exemplified by the co-winners.



Western Hoedown Night May 17

Kick up your heels at the NMA Convair Chapter Western Hoedown dinner dance on Thursday, May 17, in the Hilton International Ballroom. The western barbecue



EXCEL — Pride Makes the Difference. These people from Department 637 received a group EXCEL award for their exceptional teamwork and dedication in supporting the test and sell-off of GLCM special test equipment. Their efforts resulted in delivering ahead of schedule hardware that was critical to the successful initial operational capability of GLCM in December 1983.

dinner will be served at 6:00 p.m. Dancing to the music of Tall Cotton begins at 8:00 p.m. Western dance instruction will be offered. The ticket price is \$9 for NMA members and \$15 for nonmembers. Seating at tables for eight is by reservation. Call Shirley Nowlin, 34918, to reserve your place. Western Hoedown Night is cosponsored by Ray Beuligmann, division vice president-Energy, and Al Nelson, division vice president-Program Development.

Opportunities from the NMA

Law for the Layman. First-line supervisor course No. 10 begins May 10 at 4:30 p.m. in KM building 3, fourth floor conference room W-4. The facilitator is Drew Griffin, 565-2380. Register with Mike Lutich, 34151.

Challenge of a New Employee. First-line supervisor course No. 6 begins May 16, at 4:30 p.m., in KM building 3, fourth floor conference room W-4. The facilitator will be Jane Duby, 35608. Register with Mike Lutich, 34151.

Continuing Management Development. These "Brown Bag Seminars" have been rescheduled. The first series will begin June 18. Contact Rich Mays, 34839, for information.

From the Health-Fitness Center

May is hypertension month at the CRA Health-Fitness Center.

Special Event. Free blood pressure screening May 8 and 9, 7:00 to 8:00 a.m. and 11:00 a.m. to 12:30 p.m. Call for an appointment. This event is cosponsored by Central Medical.

Rock A'Robics. May 2, 4:30 p.m., Missile Park bandstand. May 3, 4:30 and 5:30 p.m., CRA auditorium. Free introductory classes.

For more information on Health-Fitness Center classes and special events, read the *CRA Newsletter* or call 39921.

March Retirees

Convair's thanks and best wishes for a happy retirement go to these March **Years of Service**

Camille E. Alcaraz (044-0)	20
Aircraft Assembler S&S	
Joseph R. Bain (950-0)	32
Sr. Engineer	
Wendell Clark (451-0)	22
Molder	
Harvey W. Gillespie (131-6)	31
Guard	
Walter F. Hageman (355-0)	35
Sr. Quality Engineer	
Charles A. Hammarsten (454-0)	20
Tool & Die Maker	
Warren G. Householder (015-0)	12
Turret Lathe Operator	
Palmira "Shirley" Keffler (850-0)	27
Procurement Clerk	
Leo W. Klingenmeier (810-0)	33
Technical Buyer	
Mary R. Knost (281-3)	24
Traffic Clerk	
Inez L. Markel (850-4)	39
Supervisor - Procurement Services	
C. Desmond Pengelley (602-0)	25
Sr. Engineering Specialist	
Miles S. Stepich (999-0)	33
Manager - Manufacturing Control	
Donald S. Stone (800-0)	28
Manager - Procurement	
James D. Tate (340-0)	43
Chief - Quality Control	
Stephen Teggart (362-0)	41
Supervisor - Quality Assurance	
Charles B. Wilhelm (756-0)	33
Engineering Test Tech	

Employment

For the week ending April 20, employment was 11,421.

CONVAIR Weekly Log

May 14, 1984

Published by the Convair Division of General Dynamics

Convair — QUALITY FIRST**Improvements In Department 050 for "Quality First" People**

Department 050, Avionics Manufacturing and Test, is an integral part of cruise missile production. The department has 125 people working three shifts to manufacture and test cruise missile harnesses and electronic assemblies. Since January 1983, the department has achieved some major gains in quality, cost, and schedule — gains that go a long way to support the evolution of the cruise missile program from development to production.

Innovative changes in the workplace and the "quality first" attitude of the employees have contributed to these improvements. In the harness manufacturing section of the department, for example, the "backwire board project" provides video monitors at each work station. As the assembler connects wires in the harness, the assembly diagram is displayed on the screen. When the correct connection is made, the screen registers a positive reaction and the next assembly step appears. The system will not go to the next step until the present step is performed correctly. After it is assembled, the harness can be tested right on the fixture.

The backwire project is helping assemblers do virtually error-free work. According to Department 050 people, quality defects decreased significantly the first month the backwire boards were installed. The project has received a lot of attention from other electronics industry representa-

tives who want to see the system in action.

Another innovative change is the PAWI system in the "board and box" section of the department. ("Board and box" are the circuit card assemblies and mission control modules built for the cruise missile, and "PAWI" is paperless assist work instructions.) Instead of flipping through multipage assembly aids, workers see a visual representation on a screen of the part being built and specific steps to follow.

A third change is common throughout Convair: facilities revisions to colocate all support functions with production. Physical improvements and innovative technology aside, one of the biggest achievements is the team attitude among Department 050 production and support people. Six Quality Circles are helping to foster teamwork by meeting weekly to solve work-related problems. The six circles include one made up entirely of supervisors and a proposed intershift circle.

Walking through Department 050, a visitor can easily see why the people who work there are proud of their area. They can also be proud of the indicators that reflect the good job they're doing:

- Performance: increased by 29%.
- QARs/QCOs: reduced by 84%.
- Rework: reduced by 50%.
- Nonconforming cost: reduced by 48%.
- Test yields: increased by 38%.
- QIP goals: on schedule.



Sherelle Cofield, a first-shift assembler, demonstrates a backwire board work station in Department 050.



Estelita Dayacap, second-shift assembler in Department 050, is working at a PAWI work station.

**Good Ideas Awarded in April**

Seventy-nine employees received cash awards in April totaling \$10,548 for sharing their good ideas through the Employee Suggestions program. What kind of ideas are being implemented? Here are four of April's winners.

Vern Gilson, a lathe machinist in Department 015, was the top dollar winner in April. His good idea was to design a tool to machine a critical angle in the cruise missile fin housing. When the use of this tool was implemented, it provided a big saving for Convair and \$1,269 for Vern.

Jim Brown, a graphic repro technician in Department 251, noted the time it took to drill five special holes in technical manuals for government agencies during the printing production. His idea was to order paper pre-drilled with five holes, thereby saving Convair time and money and earning him \$707.

John Morse, a mockup mechanic in Department 001, saw that torquing a type of tube without a holding device was ineffective because of the tube's tendency to twist and subsequently lose its torque. He proposed that special vice grips be placed on the tube to keep it from twisting. John's good idea resulted in a \$472 award for him.

Pat Stacey, an engineering release recorder, was concerned about the unnecessary distribution of engineering data because of out-of-date distribution lists. She suggested sending out an update inquiry every six months, and her idea earned her \$364 from the first-year's saving to Convair.

Thirteen other employees won awards of \$200 or over for their good ideas.

Name (Dept.)	Amount (\$)
J.L. Deathrage (036)	215
F. Gomez (028)	408
D.C. Herstedt (001)	420
W.C. Hester (060)	240
G.R. Johannessen (036)	252
J.A. Krueger (036)	215

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Name (Dept.)	Amount (\$)
M.A. Lima (979-6)	292
T.W. McGuire (036)	219
E.A. Parise (244)	243
J.G. Polletta (235-1)	270
L.J. Renz (253)	323
A. Robinson (036)	283
R.T. Underwood, Jr. (028)	432

Employee Suggestion Program Update:

The Employee Suggestion program has a new one-hour orientation program that will help inform the people in your area about how to submit cost reduction proposals and effective employee suggestions. An Employee Suggestion analyst will come to your area and conduct the orientation and answer questions about the program. Several large groups have participated in the orientation, and feedback indicates it benefits submitters as well as evaluators. Supervisors: Call Motivational Programs at 39944 to arrange the presentation for your area.

Correction: To those planning to attend the University of Redlands information meeting at 4:30 today, the place is the Program Development conference room, building 1, second floor (not building 2, as previously advertised), Kearny Mesa.

NMACC Tour

A 90-minute tour of the Union Tribune, sponsored by the NMACC, will start at 5:00 p.m. on Wednesday, June 6. The touring group, limited to 35 people, will see a film and one of the most modern newspaper plants in the United States. For details and reservations, call Sheila Caruso at 33811.

April Retirees

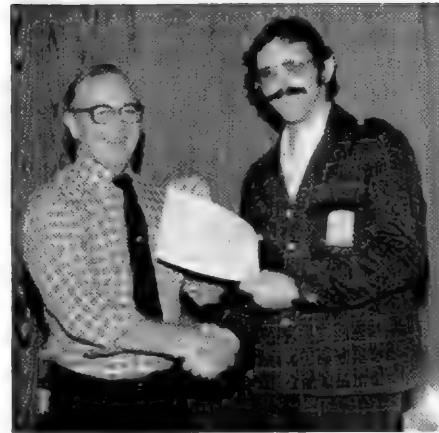
Convair's thanks and best wishes for a happy retirement go to these April retirees.

Name (Dept.)	Years of Service
David R. Archibald (300-0)	
Director-Quality Assurance	43
Richard A. Frey (671-0)	
Engineering Specialist	36
James J. Herring (643-0)	
Checking Group Engineer	33
George B. Kessen (015-0)	
Machinist Group Leader	25
James R. Mackill (100-8)	
Engineering Specialist	31
Thomas N. Moraga (756-0)	
Sr. Engr. Test Tech.	43
Virginia G. Perkins (134-2)	
Sr. Ind. Rel. Rep.	16
Harry J. Sowards (195-1)	
Financial Specialist	28

Four Years of Work: Apprentices to Journeymen



Jim Vashon is congratulated by Bill Dickey, general foreman in Department 015 machine shop. Jim recently graduated from the apprenticeship program as a machinist and will be assigned to Department 015 as a milling machine machinist.



Richard Blauvelt graduated from the apprenticeship program as a jig and fixture builder A. He completed the program early because of his excellent progress and strong endorsement from his supervisors. Presenting the journeyman certificate is Robert Taylor, general supervisor - Tooling.

Savings and Stock Plan Values for March

	1982	1983	1984
Salaried			
Government Bonds	\$ 2.8632	\$ 3.4401	\$ 3.7145
Diversified Portfolio	1.9218	2.9224	2.9229
Fixed Income	1.3183	1.4725	1.6520
Hourly			
Government Bonds	2.8598	3.4375	3.7129
Diversified Portfolio	1.9617	2.9843	2.9763
GD Stock	\$24.1250	\$43.2500	\$45.6250

Helen L. Spann (618-0)	
Secretary	24
Edward E. Spier, Jr. (681-0)	
Engineering Specialist	26
Ruth H. Stockton (001-0)	
Sheet Metal Drill Opr.	36
Taylor J. Tucker (101-0)	
Director-Marketing	8
Phyllis W. Warner (243-1)	
Secretary	29

San Diego Community College Summer Session

Manufacturing Technology 108. On site, KM building 7, classroom 3, Tuesdays and Thursdays, 4:30 to 7:30 p.m. From June 4 to July 28. Instructor: Paul Southwell.

Manufacturing Technology 196. Midway Adult School, room 23, Tuesdays and Thursdays, 5:00 to 8:00 p.m. From June 4 to July 27. Instructor: C. Diz.

Manufacturing Technology 101. Midway Adult School, room 29, Monday and Wednesdays, 5:00 to 8:00 p.m. From June 4 to July 30. Instructor: B. Nameth.

Security Tip

As part of our security program, the Security and Investigation staff will soon be conducting divisionwide security inspections and surveys, which are designed to:

- Ensure that our security procedures are consistent with established DoD security criteria.
- Identify possible problem areas and assist supervision with corrective action.

Emphasis will be placed on the marking, control, handling, and accountability of classified information. Everyone's cooperation with our security officers in this endeavor will ensure maintenance of our classified information control system.

Notice: Mailroom has moved from building 5 to building 4, column F-1, Kearny Mesa.

Employment

For the week ending May 4, employment was 11,466.

CONVAIR Weekly Log

May 21, 1984

Published by the Convair Division of General Dynamics

Congratulations, Convair Scholarship Winners

Valda Vitols and Bryan MacQuarrie, 1984 winners of General Dynamics-sponsored National Merit Scholarships, were hosted by General Manager John McSweeney during a plant visit on May 17. He congratulated both parents and students for the outstanding scholastic achievements. After lunch in the executive dining room, Valda and Bryan got a chance to tour the plant and see where their parents work.

Valda Vitols is the daughter of Hugh Kratz, an engineer in Department 639, and his wife Karin Vitols, a biochemist at Scripps Clinic & Research Foundation. Valda will graduate from La Jolla High

School in June with a 3.958 grade point average. She plans to attend UCLA and study business administration.

Bryan MacQuarrie is the son of Aline McVicker, a text processor in Department 264. He will graduate from Patrick Henry High School in June with a 4.000 grade point average and will attend the University of California at Berkeley to study either engineering or film.

Each year, General Dynamics awards scholarships to four children of corporate employees through the National Merit Scholarship program. This year, Convair is honored to have two of the four winners.



Hugh Kratz (Dept. 639) and his wife Karin Vitols; scholarship winner Valda Vitols; Aline McVicker (Dept. 264) and her son Bryan MacQuarrie, and General Manager John McSweeney.

Consairway: An Airman's Airline

Everyone knows that the B-24 "Liberator" was one of the most widely used aircraft in World War II. The factories of Consolidated Aircraft Corporation (which eventually became Convair Division) operated around the clock to meet the demand for the four-engine aircraft. Those days in the early 1940s are still a celebrated part of our company's history. What is not so well known is that Consolidated employees flew the LB-30 cargo version of the B-24

to meet the military's urgent need for a transportation service between the mainland and Hawaii, Australia, and the South Pacific.

In April 1942, Consolidated became the first private corporation contracted to operate an airline for the military, and by August a new division — Consairway — was established in Fairfield, California as the mainland base. Civilian pilots, navigators, maintenance crews, and support personnel



The Liberator.

brought to Consairway a variety of experience, which they immediately put to work to get the job done, even while working under hazardous conditions. Consairway pilots flew an average of 15 hours a day to carry military personnel, airplane parts, medicine, food, and other supplies to 16 Pacific bases, all staffed by Consairway maintenance crews.

The men and women of Consairway are justifiably proud of their unique accomplishments. Since 1977 they have been meeting annually to share memories. Most recently, 135 Consairway veterans held their 42nd reunion at the La Jolla Village Inn. Art Wrightson, estimating specialist in Department 111, was manager of Consairway's Industrial Relations. He and his wife Gerry organized the reunion and co-ordinated production of a book that documents the group's experiences. "Consairway: An Airman's Airline" is a collection of personal remembrances that tells about people like flight line mechanic Lela Poiron.

Trained as a flight mechanic, Lela came to San Diego in 1943 to work for Consairway. She hired on in the engine buildup department, where she worked long days and studied nights to earn her FAA A&E mechanics license. Lela persevered. By constantly demonstrating her abilities, she became Consairway's first woman flight line mechanic.

The work of pilot Leo Dorney and navigator Phil Thompson was remarkable for many reasons. Pilots routinely met delivery schedules by making round trips to the Pacific in the propeller-driven Liberators in less than four days. Navigators had no radar; navigation was strictly celestial, and

—OVER—

often planes flew under cloud cover to avoid the enemy.

Consolidated's Liberator performed. And it set records. When Consairway closed in 1945, it had flown a total of 300 million passenger miles and had transported 100 million ton-miles of cargo during the war.

The Consairway project lasted less than four years. In that short time, the people of Consairway set the highest standards for their operation — standards of pride and teamwork we continue to strive for at Convair today.

PLFCU Has New Kearny Mesa Location

Point Loma Federal Credit Union has opened a new Kearny Mesa branch at 8971B Complex Drive (adjacent to Bob's Big Boy restaurant). They officially opened May 14 with full-service facilities. Their hours are 9:30 a.m. to 4:30 p.m. Monday through Thursday and 10:30 a.m. to 5:30 p.m. on Friday. A reminder to PLFCU members: the main branch on Sports Arena Boulevard has the same weekday hours, and is also open on Saturday from 9:00 a.m. to 1:00 p.m. If members have questions about the new location, call them at 292-0115.

Sneak Circuit Analysis Presentation

Stephen Harbater and David Cazden, from Computer-Aided Engineering (Dept. 676), will give a presentation on System-Level Sneak Analysis Techniques: Hardware and Software at the June 22 Conference on System Analysis Techniques in Washington, D.C.

Sneak analysis detects hidden flaws in hardware design and software programs, which can result in unwanted or unexpected consequences during operational use. Convair Division is the leading General Dynamics division in this area. We have performed extensive analyses on the various versions of the F-16 aircraft flight control and electrical systems for Fort Worth Division.

Sneak circuit hardware analysis has been done for several years, but because of increased software-driven hardware functions, sneak software analysis is becoming important. The technique is being developed by a combined Convair and Data Systems Division team.

For those interested in the subject, Harbater and Cazden will preview their presentation, System-Level Sneak Analysis Techniques: Hardware and Software, in the Kearny Mesa building 5 mock up conference room B at 10:00 a.m. on Friday, June 1.



Convair Vandenberg Employees Demonstrate "Can Do" Mission Capability

During scheduled systems checks of the Atlas booster sustainer engine exhaust system at Vandenberg AFB, launch service mechanic John Olivarría discovered a leak. This kind of problem can mean up to a two-month delay in prelaunch activity. However, the combined, concentrated efforts of Convair and Air Force people cut the time it took to return the booster to operational status by two-thirds. Convair members of the team received Air Force Space Division Excellence awards as well as Convair EXCEL awards and appreciative words from Capt. Michael Menelly, senior director of Atlas Launch Operations, who praised the "can do" mission capability of the awardees and said, "The speed in which this booster was returned to operational status was due to the quick response time and cooperative effort of the aerospace team at the Vandenberg Atlas Modification Processing facility." In the photo above (left to right): Michael Terrones, Fred Price, James Lindblom, Val Brose, John Olivarría, and Donald Coates (Rocketdyne).

Deadline for New Cyber NOS Training is This Week

Over 300 users of the Cyber engineering computer system have taken the training necessary to learn and convert to the new Network Operating System. The eighth and final NOS cross-training session for current NOS/BE users will be held Wednesday, May 23, from 8:00 a.m. to noon. The current NOS/BE operating system is scheduled to be phased out at Kearny Mesa during June and July. Therefore, any Cyber customers who have not yet taken the training for the new NOS must do so this week. Details and signup sheets are posted in the Cyber bin room, Kearny Mesa building 4. Call Jack Wood, 33979, for additional information.

Eye Protection Update!

Some new areas have been designated as "eye protection required" areas: Final Assembly and Checkout and the paint shop, building 5, Kearny Mesa; building 65, Kearny Mesa; building 45, Kearny Mesa; building 107, Sycamore Canyon.

Within "eye protection required" areas, employees must wear industrial-rated eye protection. Glasses will be available at each of these locations for visitors.

NMACC Tour

A 90-minute tour of the Union Tribune, sponsored by the NMACC, will start at 5:00 p.m. on Wednesday, June 6. The touring group, limited to 35 people, will see a film and one of the most modern newspaper plants in the United States. For details and reservations, call Sheila Caruso at 33811.

From the Health-Fitness Center

Professional Wardrobing Seminar. May 23, 5:00 p.m., park pavilion, \$3.

Speaker of the Month. E. Fisher Coil, M.D., "Mild Hypertension: To Treat or Not to Treat?" May 29, 5:00 p.m., park pavilion, free. Cosponsored by Central Medical.

Shape Up. June 4, 4:30 p.m., HFC. *WORKOUT.* June 1, 4:30 p.m., CRA auditorium.

JazzXercise. June 1, 5:30 p.m., CRA auditorium.

For more information, or to register, call the Health-Fitness Center, 39921.

Employment

For the week ending May 11, employment was 11,498.

CONVAIR Weekly Log

May 29, 1984

Published by the Convair Division of General Dynamics

Convair QUALITY STARS



Nancy Moss is busy solving problems with Inspection Group Leader Joe Campbell

"Pride has always been an important part of my job. Why? It's accomplishment. If I do something, I want to do it well," says Nancy Moss, a group leader in Department 050, Avionics Manufacturing & Test. This pride is reflected in the work she does and, further, in the quality standards set by her entire department.

"Nancy is representative of Department 050's teamwork and commitment to quality," states her supervisor, Al Calabrese, Jr. But even though she represents values widespread in her department, Nancy stands out for many reasons.

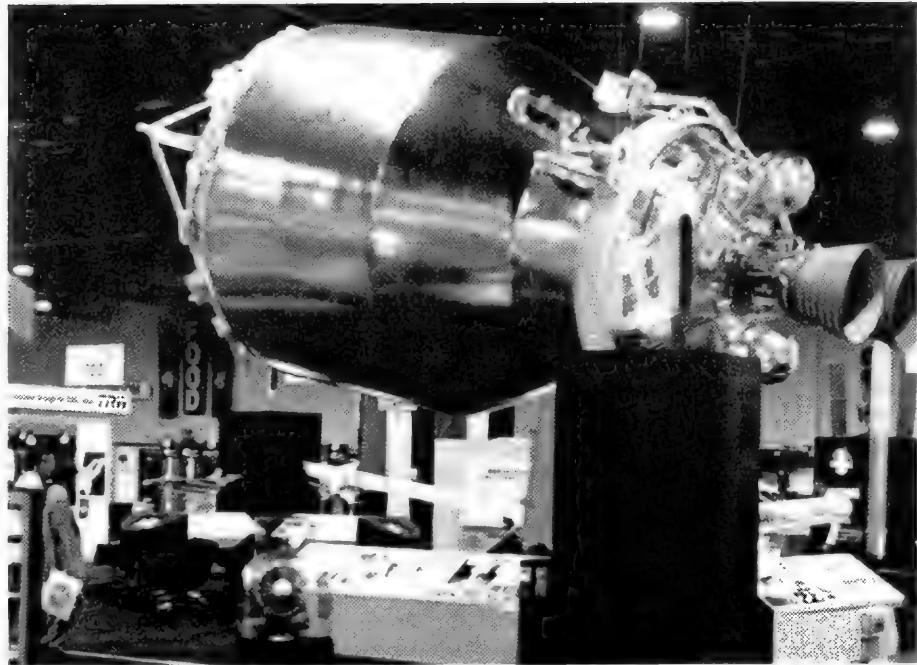
Her supervisor notes her excellent judgment gained by many years in electronics work both at Convair and DatagraphiX. This experience, combined with her ability to work closely with support groups in her area such as Planning, Inspection, and Engineering, goes a long way toward solving problems encountered during the manufacturing of important cruise missile components.

She anticipates potential problems, takes the time to go directly to the people necessary to solve them, then works hard at providing feedback to everyone so that the problems are not only cured but also prevented from happening again.

This problem-solving ability has made her an effective group leader in her area.

When asked what encourages her to do a good job, Nancy says, "I feel personally responsible. When I build anything, I want it to be the best I can do."

Experience, judgment, pride, and responsibility combine in Nancy Moss, a Quality Star who stands out among many.



Shuttle/Centaur Featured at AIAA Show

A full-scale mockup of Convair's Shuttle/Centaur was the centerpiece of the General Dynamics corporate exhibit for the 1984 International Aerospace Exhibit at the American Institute of Aeronautics and Astronautics annual meeting in Washington, D.C. David Lewis, chairman and chief executive officer of General Dynamics Corporation, was the general chairman of the three-day meeting. Representatives from the Reagan Administration, the military services, members of Congress, and senior aerospace industry officials toured the exhibits during the meeting, which featured topics on space, civil aviation, and national defense. The exhibit was created by a Convair team under the leadership of Bob Kemp and Roy Gjertson, senior graphic designers in the Art & Editorial department.



What's New in Facilities?

One hundred twenty people in Configuration Management, Avionics, AUR-SEIA, EDP, and Systems Safety moved into the refurbished mezzanine in Kearny Mesa building 5 on May 19. Refurbishment of

the old MRASM mezzanine, west half, was completed on May 18 and is the first stage of a two-phase project that will complete the cruise missile colocation effort. Several windows along the south wall of the new office area offer an excellent view of the cruise missile production areas (photo left).

Phase-two construction has begun on the east side of the mezzanine. As part of the project, the wall separating the new and old portions of the mezzanine is being removed. This project is scheduled to be completed at the end of July.

Road Closure Notice

Missile Road (the road that goes north past CRA) will be closed on Saturday, June 2, for construction.

-over-



A service award breakfast to honor employees who have completed 35 to 40 years of service was held on April 27. General Manager John McSweeny presented the employees with their service award and thanked each one for the many years of service they have given the company. Above (left to right): Jesse Estrada (35 years); Will Buxton, (staff); Craig Lent, (35); Donald Rheaume, (40); Bruce Ganoe, (staff); Bob Dietz, (35); Roy Sommers, (35); Bob Langsfeld, (staff); George Roos, (staff); Mac McIn- vale, (35); Ken Lake, (staff); and John McSweeny.

New Interplant Bus Schedule

Kearny Mesa — Viewpoint Plaza — AF Plant 19 — Lindbergh Field:

Departs		Arrives	
KM	VP	P19	LF
A.M. 7:00	7:10	7:25	7:30
8:30	8:40	8:55	9:00
10:00	10:10	10:25	10:30
P.M. 12:00	12:10	12:25	12:30
1:30	1:40	1:55	2:00

Departs		Arrives	
LF	P19	VP	KM
A.M. 7:50	7:55	8:15	8:30
9:20	9:25	9:45	10:00
10:50	10:55	11:15	11:30
P.M. 12:50	12:55	1:15	1:30
2:20	2:25	2:45	3:00

Kearny Mesa — Seville Plaza:

Departs KM for Seville: 7:05, 10:30, 12:05, 3:05

Departs SP for KM: 7:15, 10:45, 12:15, 3:15

Information: KM Dispatch 35800; LF Dispatch 28621

Bus stops:

KM — NW corner of building 5

LF — Flagged locations at buildings 8, 5, 4, 33, 3

P19 — Between buildings 1 and 2, and between buildings 2 and 3

CPR Classes This Week

The next scheduled cardiopulmonary resuscitation classes will be held in the Kearny Mesa employee dining room on May 30 and 31 from 5:00 to 9:00 p.m. The classes are open to all employees, families, and friends for a \$5 per person registration fee. Checks should be made payable to the American Heart Association, and students can either receive a refund or donate the money at the end of training.

In the light of recent news stories about infectious disease, people who want to enroll for CPR training may be assured that health and safety remain major considerations throughout instruction. The American Heart Association has developed stringent guidelines, which are implemented by the Convair instructor in our classes.

Security Tip

Report all suspicious activities connected with classified material and work areas. What are some examples?

- People who ask too many questions about your job.
- People who are not authorized in your work area but try to enter.
- People who remove classified material from an area.
- People who reproduce classified material without approval.

Report these activities to Security and Investigations through your supervisor.

Educational Opportunities from NMACC

Brown Bag Series. The NMA Convair Chapter is sponsoring the first in a series of management development programs, consisting of six sessions offered at the following times and places.

Day/Start Time	Location
Mon/11:00 a.m.	KM Trailer 2
4:30 p.m.	KM Bldg. 4, Col. K-10
Tues/11:30 a.m.	KM Bldg. 3, 2nd fl. conf. rm.
4:30 p.m.	KM Bldg. 26, 2nd fl., Col. J-26
Wed/11:30 p.m.	KM Bldg. 26, 2nd fl., Col. J-26
4:30 p.m.	SP Bldg. 2, 3rd fl., ILS conf. rm.
Thurs/11:00 a.m.	LF Bldg. 14, auditorium
4:30 p.m.	LF Bldg. 4 mezz., MIC conf. rm.
Fri/11:30 a.m.	LF Bldg. 1, Finance conf. rm., Col. J-9
4:30 p.m.	MP, 2nd fl., Estimating conf. rm.

Call Rich Mays, 34839, or Mike Lutich, 34151, for more information or to register.

Employment

For the week ending May 18, employment was 11,519.

CONVAIR Weekly Log

June 11, 1984

Published by the Convair Division of General Dynamics

Convair QUALITY STARS



Jennie Barlow, Industrial Relations assistant, excels at handling details, much to the appreciation of the people in the College Relations department, where for the last 10 years she has supported Convair's efforts to recruit top new college graduates. Her entire career spans 23 years at Convair, all in the Industrial Relations area.

"If you want to know anything about college relations, she's the one to ask," says department supervisor, Ken Biccum. "She's invaluable!"

The ability to handle detail is especially important when Jennie begins to schedule recruiting trips to the more than 40 colleges and universities with which Convair works. The planning begins up to a year in advance and requires an enormous amount of coordination between the individual

schools and our own departmental recruiters as well as a sizeable internal record-keeping task.

In January, Jennie was responsible for setting up a special Recruiter Training Program, attended by representatives from the corporate office, other divisions, and the schools. Once again, her eye for detail ensured a successful program.

Besides her dedication and the pride she takes in doing her job, Jennie is a public relations plus for Convair as she talks with many busy placement offices around the country. According to her supervisor, Jennie's positive attitude toward the many people she talks with constantly enhances the image of our division.

When asked what makes her do a good job, Jennie replied, "I like what I do and I like the people I work with. I'm proud of the department I work for, and I wouldn't want anything I do to reflect badly upon them. I just want to do a good job."

Handling detail, enhancing Convair's public image, and earning the respect of co-workers — these are all qualities that make Jennie Barlow a Quality Star.

People who listen to San Diego Padres baseball games are familiar with the expression, "You can hang a star on that one!" when a player makes an especially good play. The Weekly Log is borrowing from that expression to tell about some Quality Stars at Convair; those people who are outstanding because of consistent, high-quality work, positive attitude toward co-workers, and dedication. Supervisors: if you have a person you would like profiled as a Convair Quality Star, call Weekly Log editor Julie Andrews at 39955.

Memories of Old Five Grand

The photo in last week's "Bluesheet" of Old Five Grand brought back a lot of memories for 12 people who called to say that in June 1944 they signed the 5,000th B-24 built by Convair.

Violet Hodges, who works as a material release analyst (Dept. 269) in Kearny Mesa building 5, was the first caller. She was Violet James back when she worked on the B-24. **Paul Stanley** (Dept. 761) first came to work at Convair in 1941. He remembers mating the fuselage on the very first B-24. He now works as a precision development technician in the Shuttle/Centaur area of building 5 at Kearny Mesa. **Harold Miller** retired last year and is back working on contract in Department 242. He built the control cables on the B-24. **Adelia Morris** works in the stockroom in Department 225-3 at Lindbergh Field building 3. She got her 30-year pin three years ago. **Maydean Schell** met her husband working on the B-24. He worked on the landing flaps, and she worked on the leading edge of the wing, close enough for them to get to know each other. Maydean is in Department 332 in Kearny Mesa building 5. **Lloyd Ripley** signed Old Five Grand forty years ago. He's now a supervisor in the KC-10/DC-10 fuselage assembly area. **Clifton Meinsen** also signed Old Five Grand, and he is still working on airplanes in the KC-10 assembly area. **Walter Vierra** is now in Estimating. He has 43 years service with Convair! **Bud Shinn**, who works in Planning at Plant 19 building 3, informs us that he celebrated his

(Continued on back page)

Capossere Receives Extraordinary Achievement Award

Emmett Capossere, second shift supervisor in Art & Editorial, is a classic example of the old saying, "If you want something done, give it to a busy man!" Emmett took on the job of facilities coordinator for Program Development in late 1982. What began as a "temporary assignment" grew as colocation and expansion needs of Program Development's advanced programs increased significantly. While carrying out this special assignment for over a year and

a half, Emmett continued his responsibilities as a supervisor in Art & Editorial. Last week, General Manager John McSweeny and Program Development Vice President Al Nelson presented Emmett with an Extraordinary Achievement Award (photo above). His award cites the "high quality of leadership and performance he brought to both assignments for such an extended period of time."



Five Grand (cont.)

21st birthday working on the B-24. His stepbrother was a waist-gunner on Old Five Grand during World War II. (He says Old Five Grand was cannibalized for parts soon after being pressed into service.) **Bob Andrews** works in Manufacturing Control (Dept. 220). The last he saw of Old Five Grand was when the fuselage came out of subassembly. It was the day he got drafted. **Ken Jackman** was active in building the first test labs at Lindbergh Field. He tested the wings on one of the first versions of the B-24, the LB-30, which was built for the British. Although Ken retired in 1970, he now works as a consultant to Convair. He is the author of several articles on aviation history, which are available at the Convair library. **Edward Arregui** works in Tooling (Dept. 455). In 1944, he signed Old Five Grand and now works on the wide-body Centaur that will be used for two planetary missions in 1986. Thanks to everyone for sharing their memories.

For Your Safety

From time to time, construction and maintenance crews have to work in busy aisle-ways. They always rope off the aisle, and often someone is stationed to detour pedestrian and vehicle traffic. This is not only for the protection of pedestrians but also for construction and maintenance personnel who are working in the area. Be alert. Detours may be inconvenient but they are there for everyone's safety.

From the Health-Fitness Center

Free Presentations. Learn all about the different diet programs offered in the San Diego area. Each one-hour seminar meets in CRA room A.

Weight Watchers	June 12, 4:45
Living Thin	June 14, 5:00
"Habits Not Diets"	June 20, 5:00
Kaiser's Optifast	June 21, 4:45

Convairsations Rescheduled

Convairsations with Al Nelson, division vice president - Program Development, has been rescheduled from June 12 to Thursday, July 19, at 4:30 p.m., KM building 2 conference room. Call Jane Duby, 35608, for reservations.

Security Tip

Remember: Computers and word processors — ADP systems — require DoD approval before you can process classified information.

Employment

For the week ending June 1, employment was 11,581.



Convair Family Fun-Day Is Coming Soon!

Lou Imbimbo is heading up the committee planning Convair's annual Family Fun-Day scheduled for Sunday, July 22. Last week Lou showed off the special drawing grand prize, a new 1984 Ford Ranger pickup, to Operations Division Vice President Ken Lake and his secretary, Joanne Kowalik. Drawing tickets cost \$1.00 each. Proceeds go to the National Management Association Convair Chapter Scholarship Fund, cosponsor of the annual picnic with the Convair Recreation Association. Tickets are available now at locations displaying this same photo.

Twenty Scholarship Winners To Be Honored at June NMACC Meeting

June 27 is Scholarship Night at the National Management Association Convair Chapter meeting. General Dynamics Chairman and CEO David Lewis will speak. Twenty daughters and sons of Convair and DSD-Western Center employees will be honored during the evening by receiving college scholarships from the NMACC. The winners are:

Winner	High School	General Dynamics Parent, Dept.
Katherine Crupi	Mira Mesa	Raymond Crupi, 615-0
Kimberly Davis	Poway	Constance Davis, 524-7
Elisa Eckles	Patrick Henry	Robert Wright, 555-4
Patricia Flaherty	St. Lawrence Academy	Martin Flaherty, 950
Keith Flitner	Madison	Joyce and Klaus Flitner, 266-0 and 250-5
Lisa Gigliotti	Mt. Carmel	George Gigliotti, 190
Scott Gilbert	Kearny	Dick Gilbert, 553-2
Jennifer Gravelle	Ernest Righetti, Santa Maria, CA	Ernest Gravelle, 691-1
Deborah Hensley	San Pasqual	Otis Hensley, Jr., 363-0
Marsi Howell	Mission Bay	George Howell, 696-0
Mark Ishihara	Madison	Mitsuo Ishihara, 667-7
Kathy Kimmy	Sacred Heart	E.R. Kimmy, 616-0
Alis Lawrence	Kearny	Jan Lawrence, 102-0
Barbara Niss	Patrick Henry	Les Niss, 553-8
Seth Richmond	La Jolla	Herbert Richmond, 198-0
John Ring	University City	Robert Ring, 151-0
Linnea Ross	Patrick Henry	Gerald Ross, GDSC
Christine Tom	Herbert Hoover	Suey Poy Tom, 044
Diana Wilson	San Diego	Darwin Wilson, 626
Beth Wolfensberger	Crawford	Edward Wolfensberger, 608-0

When reporting maintenance problems, call Maintenance **Dispatch** — not the Maintenance department.

LF	28575
PL19	26675
KM	38269

NMACC Union-Tribune Tour

A 90-minute tour of the Union-Tribune, sponsored by the NMA Convair Chapter, will start at 5:00 p.m. on Tuesday, July 10. For details and reservations, call Sheila Caruso at 33811.

CONVAIR Weekly Log

June 18, 1984

Published by the Convair Division of General Dynamics

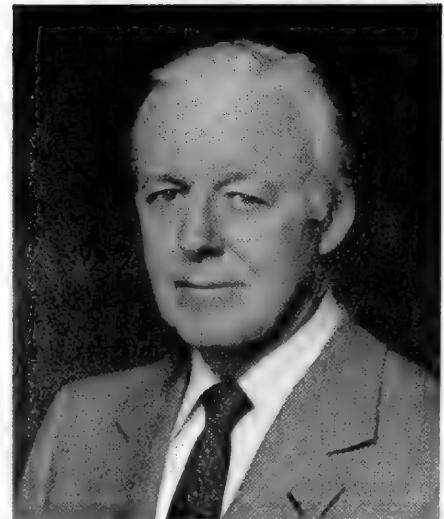


Col. Stewart is briefed on the Atlas thrust structure by John DeBlanc, Convair Director of Program Development Services. Watching are Capt. John McKechnie, Commander of DCAS, Ron Bowers of DCAS, and Chuck Lacey of Convair.

Snoopy Awards for Shuttle Contributions

Col. Bob Stewart, NASA astronaut, was at Convair on June 9 to present awards to six Convair and three DCAS people, who have made key contributions to the Space Shuttle program. The award is a replica of the Snoopy that actually flew aboard a Shuttle. Don Miller, Ed Lutchko, Percy Mauzey of DCAS, and Ray Benson, Gene Perkins, John Grier, Lloyd Birse, Clarence Dunbar, and Milton McCaskey of Convair all received silver Snoopys for their work

on the Shuttle Orbiter Mid-Fuselage Program. Stewart expressed appreciation for the engineering and manufacturing talent in this country that made possible the accomplishments of the Space Shuttle, and said, "The Shuttle program is the program that's going to put us into the 21st Century. We're in the process of stepping off the planet. The people who don't believe that are the same ones who thought we shouldn't go west of the Alleghenies."



Lewis, Awards, Installation Highlight NMACC Meeting

General Dynamics Chairman and Chief Executive Officer David Lewis will speak at the June 27 NMACC Scholarship Awards dinner meeting. The program will also include scholarship awards to 20 daughters and sons of Convair and Western Center employees and official installation of the recently elected 1984-85 Convair Chapter officers and board members. The event begins at 5:00 p.m. in the Town & Country Hotel Mission Ballroom. Tickets are \$9.50 for members and guests and \$15.00 for nonmembers. Joyce Linville, 38645, will give you your reserved table number. Call her after you have your tickets. Convair's Cruise Missile Program office is sponsoring Scholarship Awards Night. Mike Keel is the executive host.

Master Parts List Installed on Boeing 767 Program

After 5 1/2 years of design, development, and testing, Convair's new Master Parts List (MPL) system became operational on the Boeing 767 Strut program on May 29. Stage I of MPL replaces the Planning Control System and makes possible significant improvements in the quality and timeliness of material and manufactured parts requirements as well as T&O Planning. With MPL, independent parts lists can be generated earlier than before and

—OVER—

validation will be more efficient. All updates and inquiries to the system are performed on line in real time.

Since October 1983, a big training effort has been under way to ease MPL into use. A management briefing program is complete, and 30 instructors will be trained in the areas that will use MPL. Ten more instructors will be trained, for a total of 40. In addition, training has begun and will continue for people who use MPL.

Installation will continue on a monthly, program-by-program basis until all business is on the system — a giant step forward in business systems capability and integrity for Convair.



The new Master Parts List system is on line at Convair.

Security Tip

Top Secret security clearances are limited to people who need them to accomplish a specific Top Secret work assignment. When the work is completed, Convair's Security and Investigations staff down-grades employee Top Secret clearances to meet the level of regular job duties.

Supervisors: This is a Department of Defense requirement. Review your employee Top Secret security clearance requirements. If an employee has not had access to Top Secret information during the past six months and you do not anticipate a future need for access to it, submit an AVO requesting downgrade action to Security and Investigation as soon as possible.

Critical Incidents in Management
Rescheduled from June 20 to Wednesday, July 11. Contact Nancy Kimerly, 39500, or Julian Jaeger, 34385, for information.

Savings and Stock Plan Values for April

	1982	1983	1984
Salaried			
Government Bonds	\$ 2.9173	\$ 3.5110	\$ 3.7305
Diversified Portfolio	2.0116	3.1392	2.9490
Fixed Income	1.3292	1.4862	1.6678
Hourly			
Government Bonds	2.9171	3.5090	3.7289
Diversified Portfolio	2.0431	3.2074	3.0030
GD Stock	\$28.6481	\$50.3750	\$50.2500

SAWE People Notes

Several Convair employees made presentations and provided leadership at the 43rd Annual International Conference of the Society of Allied Weight Engineers (SAWE), May 21 through 23, in Atlanta. **Bob Johnston** (Dept. 111) served as chairman of the Cost Analysis and Control session. **Bob Butts** (111) presented a paper in that session entitled "The Design-to-Cost Concept: Past-Present-Future." Johnston also co-authored a paper for the session he chaired, "Estimating the Cost of the Mass Properties Task."

Buddy Oman (604) served as co-chairman of the Computer Applications session, and **Paul Slysh**, DSD-Western Center, served as co-chairman of the Space Technology session. Slysh presented a paper in his session, "Methodology for Optimization of Shell Structures." **John Sesak** (678) also presented a paper in the Space Technology session, "Active Control of Space Structures by Model Error Sensitivity Suppression." **Gerald Molczyk**, a co-op student from Northern Arizona University assigned to the Mass Properties department, presented a paper in the Computer Applications session, "Application of Portable Microcomputers in Mass Properties Engineering."

From the Health-Fitness Center

June Is Diet Month. The Health-Fitness Center is offering free presentations so you can learn all about the different diet programs offered in the San Diego area. Each one-hour seminar meets in CRA room A.

"Habits, Not Diets" June 20, 5:00

Kaiser's Optifast June 21, 4:45

For more information or to register, call the Health-Fitness Center, 39921.

Notice for Those Who Track PAs

As of July 2, Procurement Authorizations will no longer be tracked by the on-line PARTS system. After that date, the Procurement On-Line (POL) system will be the sole source to provide the status of PAs. If the need for training on how to use the POL system exists in any areas, supervisors should call Kathy Milhaud, 28233.

May Retirees

Convair's best wishes go to all these May retirees. Thanks for a job well done.

Name (Dept.)	Years of Service
Sam L. Ackerman (107-0)	27
Director — Magnet Program Devel.	
Dan R. Agee, Jr. (200-0)	30
Director — Mfg. & Mtl. Control	
Joe W. Bradley (253-3)	30
Maintenance Mechanic	
Merlin L. Cornish (031-0)	32
Special Project Mechanic	
Doris E. Gravelle (432-0)	23
EDP Terminal Operator	
Earl T. Gregory (001-0)	38
Ops. Supervisor — Mfg.	
Lawrence G. Grugal (015-0)	29
Group Leader — Machinist	
Carl A. Halonen (554-9)	29
Sr. Software Engineer	
Carl E. Larsen (001-0)	24
Punch Press Operator	
William L. Larson (439-0)	31
Ops. Supervisor — NC	
Eugene R. McFadden (648-0)	28
Sr. Project Engineer	
Marjorie C. Montanero (362-0)	24
EDP Terminal Operator	
Gretta E. Renick (461-0)	28
Sr. Mfg. Engineering Analyst	
Richard D. Renick (031-0)	31
Group Leader	
John J. Silwones (662-3)	22
Sr. Engineer	
Richard A. Sutton (673-0)	23
Engineering Specialist	
Donald L. Watson (111-0)	28
Chief — Estimating	
Robert S. Wilson (681-0)	27
Engineering Specialist	

Convair Family Fun-Day

Final details are being firmed up for Convair's Family Fun-Day on Sunday, July 22, and it promises to be the biggest and best picnic ever. Special drawing tickets are on sale for \$1 each. This year the grand prize is a 1984 Ford Ranger pickup. Flyers list where you can get tickets. Drawing proceeds go to support the Convair Recreation Association, co-sponsor of the picnic with the National Management Association Convair Chapter. Watch for posters and flyers in your area listing picnic events.

Turn in Those Extra Desks!

The call is out from Facilities. If your department has any desks, typewriters, or calculators not in use, please call Dave Wells, 34804. Turning them in will help ease the shortage of these items throughout the division.

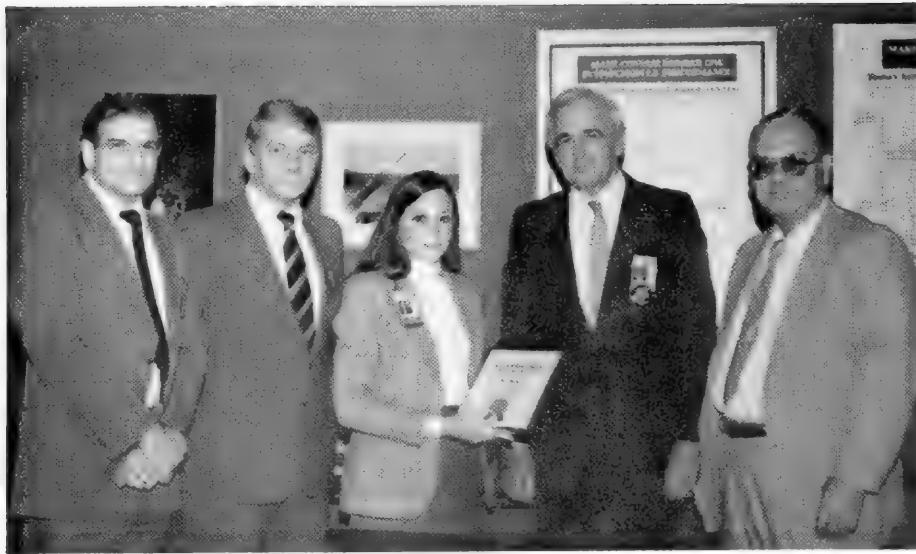
Employment

For the week ending June 8, employment was 11,626.

CONVAIR Weekly Log

June 25, 1984

Published by the Convair Division of General Dynamics



Art Regopoulos, manager - Procurement, Ken Lake, Division vice president - Operations, Jan Kania, Russ Babcock, director - Procurement, and Ev Gray, General Dynamics Director of Material.

Jan Kania — Corporate MBE Buyer of the Year

Jan Kania, technical buyer and group leader of the construction, tooling material, and service contracts buying group, has been named corporate MBE (Minority Business Enterprise) Buyer of the Year for her exceptional performance.

In 1983, Kania committed over \$2 million in new contracts with MBE firms, the highest ever placed by a Convair buyer. Her buying groups cumulatively committed over \$4 million with MBE firms, also a new record for a single buying group. Kania's total commitments alone to MBE firms represented 25% of Convair's total commitments to MBE firms and 50% of her buying group's commitments. These figures are impressive because that buy group had less than 12% of Convair's total commitments with which to work.

All of Kania's awards to MBEs are in the construction area. She has on many occasions provided special assistance to MBE firms in helping them overcome barriers to receiving contracts — for example, C.A. Larsen Construction, recently named Convair Small Business of the Year.

Her nomination lauds her "enthusiastic attitude in the support of the MBE program, thereby inspiring others in her buying group to support it."

Major Milestones Met for Property Recertification

The combined efforts of Operations Receiving, Material Control, Integrated Logistics Support, and Property Administration have allowed two functional property control system areas to regain DCAS certification. Overall approval was granted to Subcontractor Control and GFP Receiving, and partial approval was given to the maintenance of government property. Nine more functional audits must be completed before all property control system areas can be recertified. The positive and professional test actions taken so far by Convair people indicate that those audits will be successful.

TOMAHAWK SCOREBOARD

Tomahawk flight testing resumed June 19 with the successful launch of T175 from USS *Merrill*. The missile flew to the Nevada Test Range, where it impacted a simulated target, demonstrating variable-drive terminal maneuvering and terminal accuracy.

Tomahawk Production Update. Six production missiles were completed and delivered in April. May deliveries, which included the last FY82 production ground-launched cruise missiles, totaled 15, bringing the year-to-date total to 130.

May's Good Ideas Are Tools for Productivity

One hundred and six employees received cash awards in May totaling \$10,950 for sharing their good ideas through the Employee Suggestions program. Here are four of the winning ideas implemented in May.

Simplicity pays off. Harold R. Teel, Jr., a vibration acoustic technician in Department 756, suggested modifying the spreader bar used to stabilize off-center lift loads. Harold's idea was to make the lifting eye adjustable to the length of the whole bar, allowing the lift to carry any load regardless of center-of-gravity. This simple but effective idea earned Harold a \$326 award.

Precision welder Darryl Jouppi (Dept. 036) observed the tedious task of maneuvering the TEL/LCC pendant control box into position between the Sciaky welder and the weld positioner. Darryl designed a boom, that with the help of a pneumatic hoist, made maneuvering the pendant control box a precision operation. Darryl's good idea increased productivity at Convair; it also produced an award totaling \$375.

To save time and effort, Dorothy Weber (Dept. 343) suggested that Inspection Technique Sheets (ITS) be used when machined parts are inspected. The change allows inspectors to follow the step-by-step procedures used previously on similar parts and tasks to save time and avoid duplicated effort. For this cost-saving proposal, Dorothy earned a \$450 award.

Engineering Test Technician W.J. Brunnhoelzl's good idea reduced the time needed to check for leaks in finished coils from one week to two days. The suggestion paid off with a cash award of \$389, and Convair is saving time and money in Department 756.

Thirteen other employees won awards of \$200 or over for their good ideas.

Name (Dept.)	Amount (\$)
W.J. Baer (698)	225
T.A. Bolton (461)	435
L.J. Burrell (251)	338
H.G. Hall (038)	336
D.W. Hallas (431)	275
P. Kirchmaier (612)	818

—OVER—

Name (Dept.)	Amount (\$)
K.C. Lightfoot (235)	224
A. Lucero (043)	331
R. Paska (460)	214
C. Powers (028)	426
C.T. Sharp (031)	359
J.M. Sorg (358)	254
M.J. Zaragoza (036)	465

Employee Suggestion Program Update:

The winners of the second quarter Employee Suggestion drawing will be announced soon. Watch for details about the July, August, September promotion, which will feature a new grand prize for the third quarter drawing.

Security Tip

The Security and Investigation staff reminds us that special care must be taken when classified information is typed on memory typewriters. In addition to marking and safeguarding typewriter ribbons and the material generated, typewriter memory must be cleared at the end of each classified session. This action is necessary to prevent unauthorized disclosure of classified information.

From the Health-Fitness Center

Watch for self-care programs and seminars offered by the Health-Fitness Center during July. Details will be posted soon, or call the HFC at 39921.

Grand Prize on Display

The Convair Family Fun-Day picnic is July 22. With a \$1.00 donation you can have a chance to win this year's special drawing grand prize, a 1984 Ford Ranger pickup. You can see the pickup and buy tickets this week at these locations.

Kearny Mesa

Bldg. 2 lobby	Mon., 6:30-7:30 a.m.
Bldg. 26 gate	Mon., 3:30-4:30 p.m.

Gate 1	Tues., 11:00 a.m. - 12:30 p.m.
South Gate	Mon., 11:00 a.m. - 12:30 p.m.
	Tues., 6:30-7:30 a.m.
	3:30-4:30 p.m.

Plant 19	Wed., 6:30-7:30 a.m., 11:00 a.m.-12:30 p.m., 3:30-4:30 p.m.
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Mission Plaza	Thurs., 6:30-7:30 a.m.
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Seville Plaza	Thurs., 11:00 a.m.-12:30 p.m.
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Sycamore Canyon	Thurs., 3:30-4:30 p.m.
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Lindbergh Field	
-----------------	--

South overpass	Fri., 6:30-7:30 a.m.
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North overpass	Fri., 11:00 a.m.-12:30 p.m.
West Gate II	Fri., 3:30-4:30 p.m.

**Tickets for NMACC
Scholarship Awards Night
are still available.
Call Joyce, 38645, for yours.**

Employment

For the week ending June 11, employment was 11,657.



Round Tuit (back row, left to right): Management advisor Jim Parrotte, Judy Wynns, Rick MacAdam, Krista Edmonds, and facilitator Roberta Baade. (Front row): Diane Brizzolara, Josie Charity, Charlayne Stone, and circle leader Jan Lundy-Iufer. (Not pictured is Mike Szabo, who also received an award.)

Round Tuit Gets the Job Done

"Sometimes it's amazing to see how easily complex problems can be solved," said George Roos, director - Integrated Logistics Support, as he presented \$1,000 Employee Suggestions awards to members of the Round Tuit Quality Circle in Technical Publications. The circle, led by Jan Lundy-Iufer, proposed solutions to departmental problems in three presentations to management. All were approved and implemented. The Round Tuits then consolidated their proposals into one Employee Suggestion, which was approved as well.

The circle identified nine problems affecting productivity, and over a six-month period they brainstormed and collected data to solve them. Their problem solutions included implementation of an art control master log and an art status record sheet. And, Technical Publications can now check the accuracy of their work with a postproduction followup form.

Round Tuit did not solve temporary problems. Their new methods are now a way of doing business.

The circle members are quick to express their appreciation for the support given to them by management. After receiving

their Employee Suggestions awards, the Round Tuits made a presentation of their own to Charlie Keys, manager - Technical Publications. He was made an honorary member of the Round Tuit Quality Circle.

Notice for Those Who Track PAs

As of July 2, Procurement Authorizations will no longer be tracked by the on-line PARTS system (transactions/FOR P1X, PB, PP, PT). After that date, the Procurement On-Line (POL) system will be the sole source to provide the status of PAs. If the need for training on how to use the POL system exists in any areas, supervisors should call Kathy Milhaud, 28233.

El Cajon to KM Vanpool

Convair's vanpool servicing the 7:30 a.m. to 4:15 p.m. shift has two openings for employees who commute to KM from East El Cajon, Parkway Plaza, and Grossmont. Call Carl Wannamaker, 33556.

When reporting maintenance problems, call Maintenance **Dispatch** — not the Maintenance department.

LF	28575
PL19	26675
KM	38269

CONVAIR Weekly Log

July 2, 1984

Published by the Convair Division of General Dynamics

David Lewis Speech Highlights June NMACC Meeting

General Dynamics Chairman and CEO David S. Lewis presented a global overview of the corporation at the June 27 National Management Association meeting, which included a movie about General Dynamics, prepared for the annual meeting of shareholders, and an overview of how all GD divisions are doing, concluding with Convair. He compared Convair 1984 with Convair a decade ago, describing the growth in sales, earnings, employees, and funded backlog.

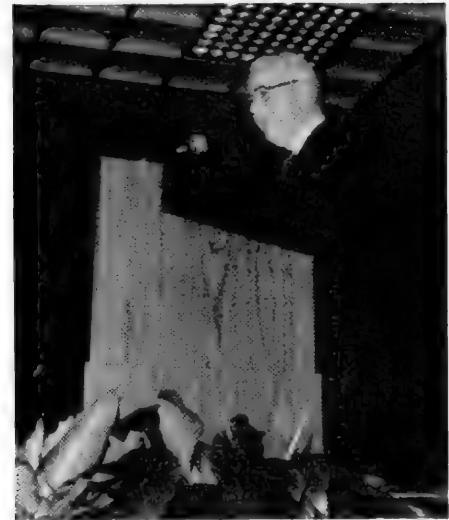
"Convair is a totally different division than it was," he said, "because it has found the way to unharness the creativity that this division has always had."

Today we face fierce competition from enormously effective contractors, Lewis

stated, "but we didn't get to be the number one defense contractor by sitting back." General Dynamics must continue to have "eternal vigilance" to get the quality we want.

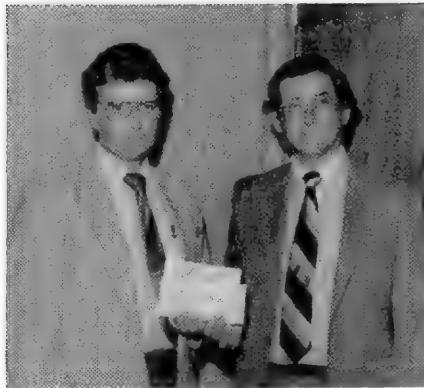
Lewis concluded by setting out some objectives he presented to a General Dynamics division back in 1972, which still apply today:

- Find creative ways of doing difficult jobs better.
- Do everything in our power to meet cost and schedule.
- Help and inspire employees to find the best ways to do their jobs.
- Abandon the obsolete and discard the unnecessary.
- Continue to operate at the highest standards of integrity.



David Lewis shares a light moment with the NMACC audience.

QA Commitment to ES/CRP Program Shows Impressive Results



One of the recent Quality Assurance employee suggestion winners is Chris Uebbing (left), a specialist in Department 302. He earned \$8,663 for his suggestion to delete an unnecessary reinspection procedure for certain packaged parts. He is congratulated by Mark Frazier, manager - Quality Procurement.

In the last several months, the Quality Assurance function made impressive gains toward achieving their 1984 Employee Suggestions goals. Furthermore, they have already met their Cost Reduction Proposal goals for this year. These gains are due largely to QA management's commitment to the ES/CRP program and a program representative — Gina Lombardi — who serves as an ES/CRP coordinator for QA.

During May, Gina gave 22 presentations to all QA departments on how the program works and how management support can help in getting suggestions through the system, thereby encouraging employee participation. Working closely with Employee Suggestions analysts, Gina helps QA employees both with filling out the forms and tracking problems.

This cooperation between QA and the Employee Suggestions department helped reduce outstanding QA suggestions from 110 to 10 in their latest status report.

Convair Family Fun-Day Is Only Three Weeks Away

This year's Convair Family Fun-Day promises something for everyone. All Convair employees, families, and friends are invited and admission is free. Bring a picnic or enjoy 25-cent hot dogs and other goodies at the park.

What's planned? For the kids there will be games, hunts, clowns, Sea World friends, the carousel and train ride, cotton candy, sno-cones, and soft drinks. For adults, there will be volleyball, horseshoes, softball, putting contests, bingo, 25-cent beer, and a chance to win some great prizes. For a \$1 donation, you can get a ticket to win the special drawing grand prize — a 1984 Ford Ranger pickup. Second prize is a 35mm camera, and third prize is a 40-channel CB radio. Tickets are

available now at many locations throughout the plants. Watch for the pickup, which will be displayed at various plant gates until the picnic.

Soon, you will receive a tab card, which you should bring to the drawing counter at Missile Park the day of the picnic. The card will be your registration for the cash drawings, and it will also identify your children for their special drawing.

Make your plans now to attend. The park will open at 10:00 a.m. July 22.

See this year's grand prize and buy your drawing tickets this week at these plant locations.

Kearny Mesa

Bldg. 2 lobby	Mon., 11:00 a.m.-12:30 p.m. Fri., 6:30 a.m.-7:30 a.m.
Bldg. 26 gate	Mon., 3:30 p.m.-4:30 p.m. Fri., 11:00 a.m.-12:30 p.m.
Gate 1	Mon., 6:30 a.m.-7:30 a.m. Fri., 3:30 p.m.-4:30 p.m.

Harbor Drive

Tues., 11:00 a.m.-12:30 p.m.

Seville Plaza

Tues., 3:30 p.m.-4:30 p.m.

Sycamore Canyon

Tues., 6:30 a.m.-7:30 a.m.

Lindbergh Field

South overpass	Thurs., 11:00 a.m.-12:30 p.m.
North overpass	Thurs., 3:30 p.m.-4:30 p.m.
West Gate 11	Thurs., 6:30 a.m.-7:30 a.m.

Check Out These Badge Requirements

Entry into any Convair facility is strictly controlled. Everyone entering the plant must be identified and must wear a badge, including all employees, contract person-

nel, vendors, and visitors. Where do you wear your badge? Upper left portion of your body, at all times.

What if you see someone not wearing a badge? Challenge and escort the person to his or her supervisor or to Security. What if you see an unaccompanied visitor wearing an "escort required" badge? Challenge and escort that person to Security.



General Manager John McSweeny congratulated Major Lee McOmber (left) and Captain David Maas, USAF, on the successful completion last week of their ten-month assignment with Convair under the Education with Industry program. This is the 27th year of Convair participation with EWI, a program that seeks to provide selected Air Force officers experience and knowledge about government contract operations. Both Major McOmber and Captain Maas expressed high regard for the Convair work force as they made preparations to leave for their next assignments.

Model 204 User Language Training

A Model 204 User Language class will be taught at Viewpoint Plaza July 30 through August 3. This one-week class will be taught every other month. Course materials will be charged to your department. Registration, limited to 12 per class, will be handled on a first-come, first-served basis. For information or to register, call Carmen Martinez at 65252.

Another Patent Issued to Convair Inventors

A lightweight antenna for space radar applications is the subject of U.S. Patent 4,445,121, recently granted to Convair inventors Joseph Hancock (Dept. 671-0) and Robert Henry (Dept. 607). The antenna is made up of many separate antenna modules mounted on a metal mesh. The antenna can be folded and rolled on a spool for transport by the Space Shuttle into orbit, where it is unfurled and put into operation.

Professional Development From the NMACC

Convairsations. Two Convairsations with Management are scheduled for July.

July 12 — George Roos, director — Integrated Logistics Support. Topic: "Base Development."

July 19 — Al Nelson, division vice president — Program Development. Topic: "How Do We Get Our Contracts?"

Both Convairsations will be held from 4:30 to 6:30 p.m. in the KM bldg 2 presentation room. Call Jane Duby, 35608, to reserve a seat.

Interpersonal Skills for the Manager

begins Tuesday, July 10, 4:30 p.m., in KM bldg. 25 Research & Engineering conference room. Register with facilitator Nancy Kimerly, 39500, or Julian Jaeger, 34385.

Critical Incidents in Management begins Wednesday, July 11, 4:30 p.m., in the KM bldg. 25 Research & Engineering conference room. Register with Julian Jaeger, 34385, or call facilitator Nancy Kimerly, 39500.

Introduction to Supervision (First-Line Supervisor Course No. 1) begins Thursday, July 12, 4:30 p.m., LF bldg. 5, second floor, col. Q-2. Register with facilitator Rudy Cruz, 27318, or Mike Lutich, 34151.

Counseling (First-Line Supervisor

Course No. 7 begins Wednesday, July 18, 4:30 p.m., KM bldg. 3, second floor, col. D-9. Register with Krista Edmonds, facilitator, 63028, or Mike Lutich, 34151.



Colonel L.L. Gooch, Western Space and Missile Center (WSMC) commander, recently awarded the WSMC Best Contractor Individual Safety Award for 1983 to George La Combe, senior safety engineer for General Dynamics Convair Division, Vandenberg Operations. According to Gooch, George's personal approach to "safely get the job done" has significantly enhanced the safety effort put forth by all Convair personnel at Vandenberg AFB.

Announcing 22-Week T&O Planning Class

Tool & Operations Planning, in cooperation with Educational Services, announces the opportunity for Convair employees to become T&O planners. The requirements for this six-week-classroom and 16-week on-the-job training program are very specific and include a strong desire to become a planner, a college degree (or near completion), and recommendation by supervisor. Further information will be provided at these orientation meetings or from Robert Rix, Educational Services, 39558.

Second shift employees	Date	Time
KM employee		
dining room	July 5	2:00-3:30 p.m.
LF building 14		
auditorium	July 6	2:00-3:30 p.m.
First shift employees		
KM employee		
dining room	July 5	3:45-5:15 p.m.
LF building 14		
auditorium	July 6	3:45-5:15 p.m.
Third shift employees		
KM employee		
dining room	July 6	7:30-9:00 a.m.

Just a Reminder: Please drop Convair return-to-sender envelopes into the outgoing mail as soon as you receive them. Envelope recycling is a quick and easy way to keep costs down.

From the Health-Fitness Center

July is self-care month.

WORKOUT. July 9, 4:30 p.m., CRA auditorium.

Yoga Fitness. July 3, 4:45 p.m., Missile Park.

For information or to register, call the Health-Fitness Center, 39921.

The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair Division. If you have stories of interest to Convair people, call Julie Andrews, 39955, or send them to MZ 33-1334.

Managing Editor . . . Julie Andrews
Production Editor . . . Nancy Mumford
Design/Layout . . . Peter Urban

Employment

For the week ending June 22, employment was 11,700.

Happy 4th of July!

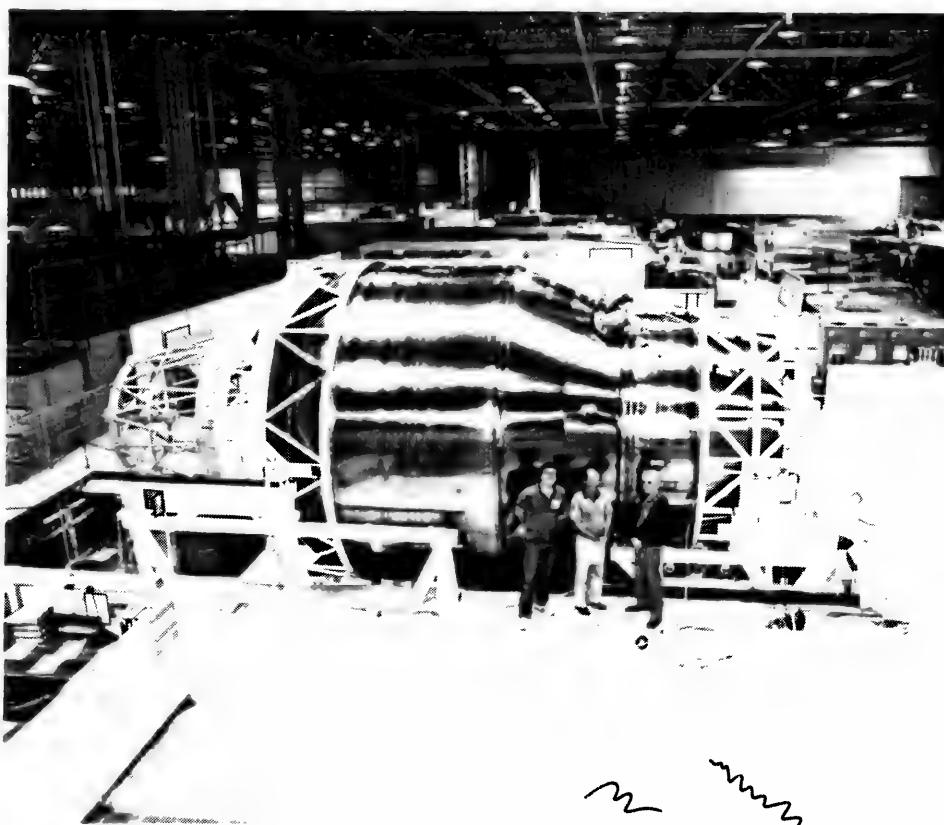
CONVAIR Weekly Log

July 9, 1984

Published by the Convair Division of General Dynamics

Shuttle/Centaur Structural Test Program to Begin in Mid-July

The Shuttle/Centaur major structural test program is about to begin at Sycamore Canyon. The first article tested will be the Centaur Support Structure. The CSS lies in the shuttle orbiter cargo bay and is the basic support for the Centaur/spacecraft system. The Centaur G-Prime is the first 14-foot-diameter Centaur tank to be built. The test tank, shown in the final assembly dock at Kearny Mesa building 5, will be tested as soon as assembly of the aft and forward adapters is finished.



Register for Fall Semester Community College Courses

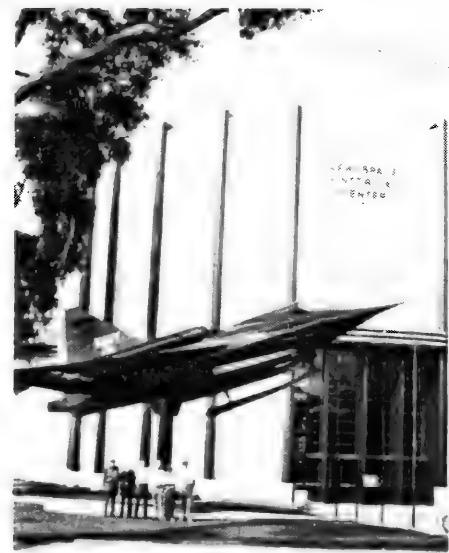
It's time to sign up for the San Diego Community College courses that will be offered at Lindbergh Field and Kearny Mesa during the fall semester starting September 4. In-plant registration will be available on Tuesday, July 17, at Lindbergh Field, building 14 auditorium, from 2:00 to 5:00 p.m. At Kearny Mesa, register on Wednesday, July 18, in the building 2 lobby, from 2:00 to 5:00 p.m.

Courses are open to all General Dynamics employees and families. If

you have resided in California less than one year, a tuition charge of \$73 per unit is required by law and payable upon registration. Tuition for California residents is \$5 per unit for five units or less and a \$50 flat fee for six units and over. All students are encouraged to enroll and pay fees on July 17 and 18. After those dates, all fees must be paid at City College.

Class schedules are posted in various locations and are also available in the July "Educational Bulletin." For information, call Educational Services, 22362 at LF or 39558 at KM.

Sea Dart Goes to Its Final Home



On June 26, after years of planning and work, the many retired and active Convair employees who worked on restoration of the XFY-1 Sea Dart saw it finally installed in its permanent home at the San Diego Aerospace Museum.

Frank Signorelli, outgoing president of the National Management Association Convair Chapter and coordinator of the Sea Dart project, said space would not permit listing everyone who worked on the project, but he expressed his appreciation to all those whose enthusiastic volunteer effort made the restoration a success.

The Sea Dart was built as an experimental plane for the U.S. Navy. It first flew in April 1953, taking off on its retractable skis from San Diego Bay. It was Convair's first - and last - jet-powered seaplane.

Four Sea Darts were built, and the one restored by the Convair retirees is the only one left. Convair donated the Sea Dart to the Aerospace Museum several years ago. After refurbishment was complete, a special pedestal had to be built before the Sea Dart could be turned over to the museum.

Now the bright Navy-blue Sea Dart serves as a proud reminder of Convair's aviation history.

OVER

Tomahawk Scoreboard

Tomahawk Anti-ship Missile T131:1 was successfully launched from the USS *Houston* on June 29. Congratulations to the Tomahawk team!

Talada Receives EXCEL



Karen Talada, an engineering documentation representative in Data Management - Space, was presented with an EXCEL award for her outstanding support on the Atlas/Centaur programs. Karen has consistently dedicated herself to ensuring that all contractor data requirements list items flow through the system. On hand to congratulate her were John Endicott (left), chief - Supplier Configuration Management, and Craig Fitz Gibbon, chief - Material Program Control.

Johnston Elected SAWE Honorary Fellow

Bob Johnston, manager - Engineering Cost Analysis, was elected an Honorary Fellow at the recent Society of Allied Weight Engineers conference in Atlanta, Georgia. Election as an Honorary Fellow requires nomination by the SAWE's Awards Committee and election by a three-fourths vote of the Board of Directors. Johnston's election recognizes his outstanding contributions to the advancement of the Society. Johnston has served the SAWE in a number of capacities, including two years as international vice president and technical director. He also initiated and has been responsible for design-to-cost and cost-analysis-and-control activities at the SAWE's international conference for the last ten years.

Employment

For the week ending June 29, employment was 11,732.

Savings and Stock Plan Values for May

Salaried	1982	1983	1984
Government Bonds	\$ 2.9671	\$ 3.4923	\$ 3.6977
Diversified Portfolio	1.9268	3.1051	2.7811
Fixed Income	1.3413	1.5006	1.6843
Hourly			
Government Bonds	2.9643	3.4906	3.6960
Diversified Portfolio	1.9665	3.2495	2.8271
GD Stock	\$25.7500	\$52.3750	\$45.000

GTS Third Edition

Over 60 new hires have been recruited as a result of employee referrals through the Great Talent Search Third Edition. Microwave ovens, color TVs, video cassette recorders, and lawn furniture are just a few of the items that our winners have selected from a list of over 100 merchandise awards.

To be a winner, you must take the first step: complete the GTS referral card and submit your engineer and scientist referrals. For details, see the program brochure or drop by the east end of KM building 1, first floor. Referral cards and brochures are located in major vending areas throughout the facilities.

Security Reminder

You are not authorized to reproduce classified material on the reproduction machines throughout Convair plants. Department of Defense security regulations require strict control and accountability of classified material reproduced at this division.

To ensure adequate safeguards and compliance with DoD regulations, classified materials must be processed through document control stations. Graphic Reproduction is the only Convair group authorized to reproduce classified material.

Lindbergh Field Cashier Moves

The cashier's office at Lindbergh Field has moved to column E-1 on the mezzanine of building 1. Their hours:

Monday: 9:00 a.m. to noon.

Tuesday through Thursday: 9:00 a.m. to noon and 1:00 to 4:00 p.m.

Friday: Closed.

On Monday afternoons and Fridays, airline tickets and traveler's checks can be obtained from Linda Jensen at column M-4 on the building 1 mezzanine.

Professional Development from the NMACC

Two Convairsations with Management are scheduled for July. July 12 - George Roos, director - Integrated Logistics Support. Topic: Base Development.

July 19 - Al Nelson, division vice president - Program Development. Topic: How Do We Get Our Contracts?

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Introduction to Supervision (first-line supervisor course No. 1) begins Thursday, July 12, 4:30 p.m., LF building 1, mezzanine accounting conference room, column J-9. Register with facilitator Rudy Cruz, 27318, or Mike Lutich, 34151.

Counseling (first-line supervisor course No. 7) begins Wednesday, July 18, 4:30 p.m., KM building 3, second floor, column D-9. Register with Krista Edmonds, 63028, or Mike Lutich, 34151.

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Managing Editor . . . Julie Andrews
Production Editor . . . Nancy Mumford
Design/Layout . . . Peter Urban

CONVAIR Weekly Log

July 16, 1984

Published by the Convair Division of General Dynamics

Good News for Convair from DCAS Quality Audit Team

A departure briefing by the Defense Contract Administration Services quality systems review team June 29 contained good news. The team reviewed corrective action taken in areas of concern raised by the original audit done last January, and Jim Young, DCAS team captain, expressed the team's unanimous opinion that there had been great improvement in product discipline and attention to detail at all levels.

Rudy Molina, director-Quality Assurance, expressed his pleasure at the results and commented, "I am very grateful to all the employees in our division who contributed their time, energies, and effort to successfully pass this review. I specifically would like to thank Ken Lake and Dan Da Pra for their selfless support. We as a division worked very hard in preparation for this review, and our efforts paid off."

Convair Awarded Space Station Thermal Contract

NASA Marshall Space Flight Center recently awarded Convair a contract to perform a systems evaluation of thermal management options for the manned space station. The space station is expected to serve as a laboratory for scientific and industrial research, requiring a number of coolant loops and radiators to maintain tight control over component temperatures and to reject large heat loads to space. Two baseline system configurations will be defined: first, one using flight-proven technology, similar to that used on the Space Shuttle; and second, a system using developmental technology that may offer improved performance.

Key aspects of the seven-month study include evaluation of thermal storage applications to reduce system weight and thermal integration of a space vehicle cryogenic propellant depot into the space station. This contract meets part of Convair's overall technology development objectives to support a manned space station, space-based radar systems, communications satellites, and defense surveillance satellites.

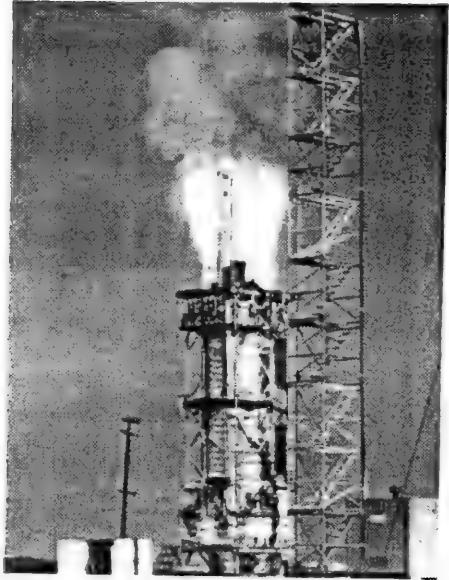
John Schuster, Department 696, is the proposal and study manager. Congratulations to the entire team!

Department 637 Honors Achievements

People in Ground Electronics Labs (Dept. 637) gathered on July 5 to recognize the achievements of several co-workers.

John Njaa, chief-Ground Electronics Labs, presented EXCEL awards to Jerry LaBranche, manufacturing development engineer, and Frank Haggard and Jim McCann, engineering electronics technicians (photo below, left to right). The three were part of a group that successfully accomplished major modifications to GLCM support equipment at one of the bases in Europe. With a lot of skill and hard work, they performed their task in one-fourth the scheduled time and earned the respect and appreciation of the customer and a "well done" from the base manager.

At the same meeting, Ray's Ground Launchers, one of the Quality Circles in Department 637, was recognized for successfully implementing a cost reduction project. The circle came up with a work status board with slots for color-coded cards indicating the status of all jobs in the shop. By looking at a card, anyone can see the location, date, and priority of a job, as well as who is working on it. The work status board allows both supervisor and lead people to track jobs more efficiently. Circle members are leader Ray Simpson, Dixie Bloomer, Greg Burns, Clint Burger, Kyle Conner, Lee Erqueza, Theresa Hopkins, and Bob Tompkins.



Vertical launch system test using T84 in fall of 1983.

Convair Awarded Contract for Tomahawk Vertical Launch Test Program

Convair has been awarded a \$15.7 contract for integration of Tomahawk into the Navy's vertical launching system (VLS) aboard CG-47-class Aegis cruisers and DD963-class destroyers. The program includes Tomahawk ground testing in the VLS canister, support to Tomahawk weapons system development, and installation aboard ship and a series of eight flight tests from USS *Norton Sound* (AVM-1). The development phase of the program will conclude with the validation of the first Tomahawk VLS-capable DD963-class destroyer in late 1986. Congratulations to the Tomahawk team!



Community College Registration

Remember to sign up for community college classes that will be offered on site this fall starting September 4. Register at Lindbergh Field building 14 auditorium Tuesday, July 17, from 2:00 to 5:00 p.m. Register at Kearny Mesa building 2 lobby Wednesday, July 18, from 2:00 to 5:00 p.m.

The July 22 Convair Family Fun-Day picnic at Missile Park, sponsored jointly by the Convair Recreation Association and the NMA Convair Chapter, has been postponed to August 19.

—OVER—



Another Award for a Good Idea. Bob Kenehan, a test engineer in Operations Test Engineering, earned \$1,970 through the Employee Suggestion program for his idea to backwire the boards on which cruise missile harnesses are built so that the harness can be tested right on the board after assembly instead of being removed and taken to a test area. Ed Squires, division vice president-Cruise Missile Production, presented Kenehan with his award. This is a partial award for Kenehan, and evaluators are investigating the further cost savings potential of his suggestion.

Sea Dart Update

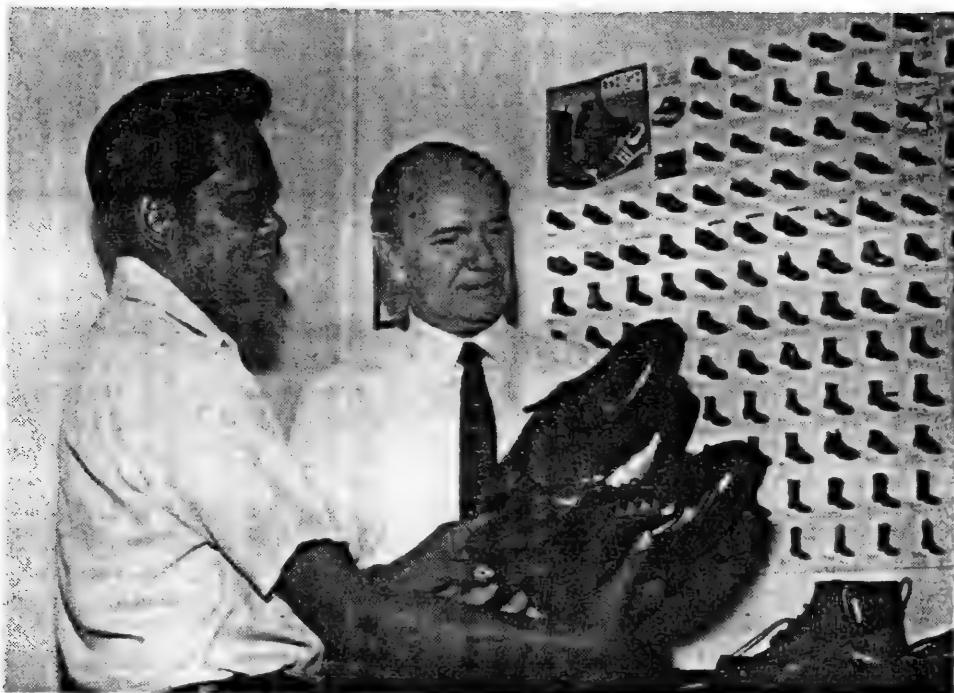
Pete Reataford of Department 264 called the *Weekly Log* to say there's another Sea Dart restoration project going on.

According to the June issue of *Sport Aviation*, the Sun 'N Fun Corporation is building an aviation museum in Florida, and a Convair Sea Dart, in the process of being restored, will be one of the first exhibits.



Who are these people and why are they looking so serious? They're among those who participated in the two-week value engineering workshop at the beginning of the year. Anyone who has attended a VE workshop can testify that things don't stay this calm. The class divides into eight teams to learn value engineering principles by working on projects selected from Convair's on-going programs. It's a concentrated, challenging, and dynamic course.

The next VE workshop will be held September 17-28. Check with your supervisor now about attending. (Memos were sent to supervisors naming August 6-17 as the workshop dates. Supervisors, please note the schedule change.) For more information, call Dennis Bartlett, 39130, or Bill Frank, 38206.



Bert Trajano at the Kearny Mesa shoe store shows off the latest in safety shoes to Al Nolan, an engineer in Systems Verification.

Something New in Safety Shoes

The safety shoe stores are featuring some new styles. The new lightweight, comfortable shoes look like dress shoes, but the heavy-duty protection of safety shoes is built in. The stores at both Kearny Mesa and Lindbergh Field have many styles from which to choose — from boots to athletic shoes. Prices are good and employees may purchase shoes through payroll deduction. Store hours: Lindbergh Field building 33 (between building 4 and 2), 9:00 a.m. to 5:00 p.m. every Tuesday.

Kearny Mesa building 31 (east side of building 5), 9:00 a.m. to 5:00 p.m. every Thursday.

A small sign in the KM store says it all about the importance of safety shoes and other protective wear:

"The following items are not in our stock and cannot be purchased at any price: fingers, hands, arms, toes, feet, legs, skull, brain, eyes. The hospital workshop will attempt to repair any of the above if damaged, but cannot guarantee results."

Manufacturing Engineering Planning Department Holds Teamwork Picnic

Inspired by Ken Lake's emphasis on the importance of teamwork, Mike Holmes, manager of Manufacturing Engineering Planning, and department supervisors reporting to him sponsored an employee picnic at Missile Park on June 24. All those attending said the picnic was a tremendous success. Approximately 150 employees and family

members enjoyed music, refreshments, and spirited volleyball and horseshoe competition during the day. Thanks go out from picnic organizers to everyone who pitched in to make the picnic a success and to chalk up some "plus" marks for teamwork!

Remember Those Special Security Classifications

Access to security combinations or containers used to store NATO, CNWDI, COM-SEC, WNINTEL, or other special access information, must be restricted to appropriately briefed employees who have a need to know. It's up to each department's security representatives and monitors to ensure that procedures conform to these restrictions.

From the Health-Fitness Center

July Is Self-Care Month

Speaker of the Month. Charles A. Moss, M.D., will present a free lecture, Self-Care and Optimal Health, July 26, 5:00 p.m., park pavilion.

Special Event. Massage Workshop. July 24-August 21 (Tuesdays), CRA room A, 4:45 p.m.

Rock A'Robics. Begins July 16, Park Bandstand, 4:30 p.m.

Aerobics with Ava. Begins July 30, meets MWF, 1:00 p.m., CRA auditorium.

For more information, call the CRA Health-Fitness Center, 39921.

Employment

For the week ending July 6, employment was 11,739.

CONVAIR Weekly Log

July 23, 1984

*Published by the Convair Division of General Dynamics***Convair Awarded Peacekeeper CDM Contract**

Convair has been awarded a \$3 million contract from AVCO Systems Division to build five composite deployment modules for the Peacekeeper ICBM (formerly MX). These full-scale engineering development modules will be built using production procedures to prepare for rate production and will be delivered late this year. Proposals have been submitted for five additional FSED modules and the first 27 production modules.

The CDM is a wafer-shaped structure, fabricated from aluminum and graphite/epoxy composite, that supports the Peacekeeper payload.

Congratulations to the CDM team!



Chuck Harter, manager - General Dynamics Convair Division, Vandenberg Air Force Base, greets Defense Minister Zhang Aiping and his wife during their recent visit to the Atlas facility. The minister was presented with a sample of Atlas tank skin.

Chinese Defense Minister Tours Convair Facilities at VAFB

The Minister of Defense for the People's Republic of China recently visited Vandenberg Air Force Base. The minister is visiting the United States at the invitation of Secretary of Defense Caspar Weinberger. Minister Zhang Aiping, his wife, and staff toured Atlas fabrication and engine processing facilities and viewed a presentation on the Atlas E launch vehicle. Rear Admiral David G. Ramsey, U.S. Defense Attaché to the People's Republic of China, is host for the minister's U.S. tour.



Each year, Convair submits a brochure summarizing the year's technical progress and describing our research plans for the coming year. This brochure is evaluated by technical personnel from the military services and NASA. The evaluation is then used to establish the allowable government ceiling for the company's IRAD expenditures. Thirty-three people received special recognition for their hard work and high scores on the 1983 Independent Research & Development Technical Plan document. Dan Da Pra, division vice president - Research & Engineering, and Al Nelson, director - Program Development, expressed their appreciation for the outstanding effort that is being applied in the research and development areas within our division. Glenn Yuguchi, manager - IRAD, B&P, and CRAD Administration, noted that we not only exceeded the national average with our score, 8.12 out of a possible 10.00, but that we also exceeded our established goal and last year's score as well. The awardees contributed to the seven out of 34 projects that received scores of 9.00 or better. Each received a certificate and an award from Convair's Recognition program.

College Interns Participate in Workshop

Industrial Relations has the primary responsibility for recruiting and hiring skilled people to meet business needs now and into the future. One of the ways it does this is through the College Intern Program, which is designed to benefit both Convair and the talented young people who participate.

The interns, who come from a variety of academic backgrounds, get practical work experience before they graduate, helping them to transition from school to careers. Besides identifying candidates for future employment, Convair benefits from the creative, enthusiastic, new ideas of these people while they are here.

The current group of interns numbers 127 men and women, representing 50 different schools and 23 different states. College Relations brought them all together July 17 at a morning workshop that gave them a chance to hear some of Convair's top management team. Augie Daddi, divi-



sion vice president - Industrial Relations (photo above), welcomed the group. Other topics and presenters were Dan Da Pra - Research & Engineering, Chuck Curriden - Division Planning, Joe Stelmah - Operations, and Chuck Bohle - Finance.

Everyone agreed it was a worthwhile morning. Student comments show the program's success: ". . . very important for my outlook on the future." ". . . it's been interesting learning about how such a large company operates." ". . . gives me a realistic application of college-learned skills."

—OVER—

June Employee Suggestions — Highest Total in 1984

Employee suggesters earned \$36,978 during the month of June — the highest monthly award total this year. Twenty-one employees earned cash awards of \$200 or more.

Name (Dept.)	Amount
Jim Austin (264)	1,756
Andrew Bakaysza (031)	236
Joel Delfin (493)	227
Russ Garrison (111)	346
Vern Gilson (345)	1,554
Dick Golem (028)	1,129
Erick Helland (015)	497
Kirk Isham (283-3)	218
Bob Kenehan (060)	1,970
Wade Maurer (311)	497
Harley Poulter (231)	314
Ron Reekers (350)	210
William Reese (036)	204
Alecia Ridgeway (283-3)	379
James Rigen (422)	280
L.M. Sones (626)	376
Francisco Taiveron (015)	1,751
Chris Uebbing (302)	8,663
John Vilaplagas (015)	241
William Wendler (311)	896
Tommie Williams (046)	745

Large cash awards representing the most cost savings get a lot of attention. There is another kind of suggestion that produces intangible results because cost savings are difficult or impossible to calculate. These ideas are rewarded with cash or merchandise if they produce better ways to do business. Here are some examples of such intangible awards.

Joe Harrison, a missile mechanic in Cruise Missile Final Assembly, proposed a simple way to keep filings from falling into the aft body section after a trim operation. Even though cost savings could not be calculated, the committee evaluating suggestions in his department felt his idea was a good one.

Kitty Welch, a tester in Department 050, thought of a way to improve the straps holding backwire cables to a rack so that they would be easier to use. Her improvement produced no cost savings, but her department thought it worthwhile.

Dick Clark, a dispatcher in Kearny Mesa building 5, came up with a rivet box lid that produced intangible savings but increased efficiency and orderly storage.

Summer Retirees

Convair's thanks and best wishes for a happy retirement go to these June retirees.

Name (Dept.)	Years of Service
Watie M. Alberty, Jr. (268-0)	
Logistics Specialist	34
Dennis T. Barber (653-0)	
Engineering Specialist	28
Walter R. Bruce (220-0)	
Engineering Specialist	27

EXCEL Citations for Outstanding Efforts in Meeting IOC Commitment



When a test failure dictated a new canister extension design on the ground-launched cruise missile, Jim Gardner (above right), Tomahawk AUR project engineer led the effort to produce the new canister and meet a very critical schedule — the national commitment for initial operational capability of GLCM in Europe. His citation recognizes him not only for his own superior work but also for the patience and perseverance to bring along new people assigned to the project. On hand to present the EXCEL citation to Gardner was Bernie Kuchta, division vice president and Cruise Missile chief engineer.

To meet our Tomahawk main operating base support equipment requirements, Howard Jope (center), a logistics administrator in Department 270, put forth extra effort and dedication to ensure on-time delivery of TELs and LCCs to Europe. For his outstanding contributions in coordinating all TEL/LCC shipments to support the MOBs, Howard recently received an EXCEL citation from George Roos (right), director — Integrated Logistics Support, and Ray Dishong, chief — Logistics Field Service Engineering.

Robert E. Dietz (117-4)	
Senior Project Engineer	.35
Jose Fuentes (002-0)	
Process Equipment Operator	.27
John E. Glenn (253-2)	
Custodian	.14
Leroy M. Guess (225-2)	
Operations Supervisor	.44
Donald W. Hawks (131-6)	
Guard	.7
William D. Lankford (242-0)	
Program Control Specialist	.23
Antone Mendez (015-0)	
Honed Surfaces Mechanic	.26
Deloris S. Meredith (195-2)	
Management Assistant	.33
Wilmer W. Morris (190-0)	
Manager Flight Operations	.38
Lawrence R. Moore (979-4)	
Senior Calibrations Technician	.27
Floy B. Nichols (191-0)	
Management Accountant	.30
August F. Nobrega (015-0)	
Metal Fitter	.33
Thierry B. Rogers (221-0)	
Operations General Supervisor	.43
William H. Schaefer (640-0)	
Program Engineering Chief	.41
George W. Stockdale (111-0)	
Senior Estimator	.36
Albert C. Werts (131-5)	
Plant Protection Supervisor	.30

Opportunities from the NMACC

Introduction to Supervision (first-line supervisor course 1). The new start date is Thursday, August 9, 4:30 to 6:30 p.m., at Lindbergh Field building 1, south mezzanine, column J-9, accounting conference room. Sign up with facilitator Rudy Cruz, 27313.

Bus Pool Openings

Bus pool openings are available for Lindbergh Field and Plant 19 employees on the 7:00 a.m. to 3:30 p.m. shift who commute from El Cajon. Morning pickup points are the Pinnacle Peak Restaurant and the intersection of Mollison and Madison. Call Bruce Smith, 579-5236, or Everett Shackleton, 28723 or 449-2389, for details.

A Note About Security

Questionnaires or surveys requesting information about your defense-related activities — classified or unclassified — must be referred to the General Dynamics Western Region Public Affairs Office. Declassified or unclassified defense information cannot be released to the public. Authority for release rests with the government. If you have any doubt about inquiries from sources other than Convair or the federal government, check with Security and Investigation.

From the Health-Fitness Center

Massage Workshop. Five-week class begins July 24, 4:45 to 7:15 p.m., CRA room A. Preregistration required.

Self-Care lecture. Free 90-minute lecture, "Self Care and Optimal Health," July 26, 5:00 p.m., park pavilion. Preregistration required.

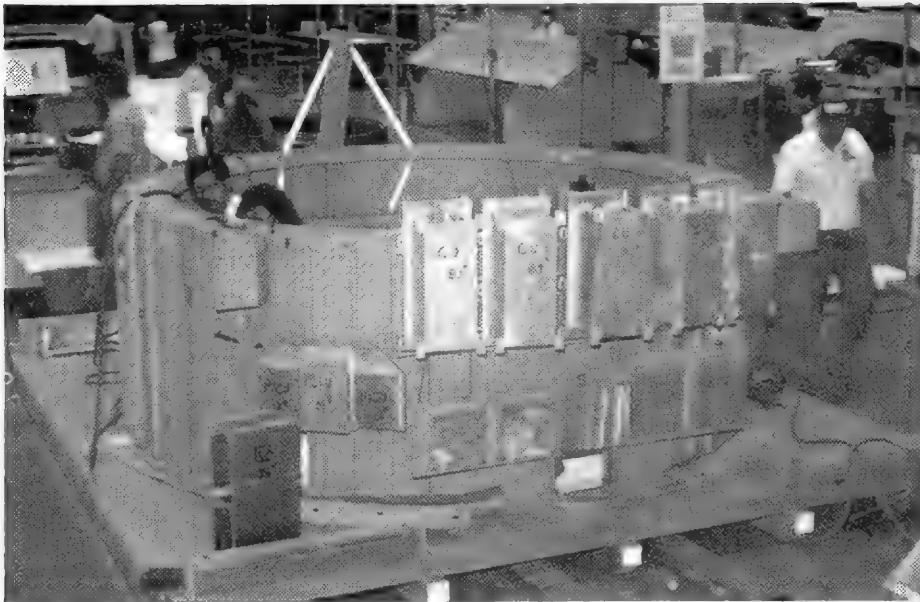
Employment

For the week ending July 13, employment was 11,793.

CONVAIR **Weekly Log**

July 30, 1984

Published by the Convair Division of General Dynamics



Last Tuesday, the Shuttle/Centaur deployment adapter (above) was shipped to Goddard Space Flight Center for the first phase of a long-range test program. The deployment adapter is part of the Centaur airborne support equipment that sits in the Shuttle bay and cradles and rotates the Centaur. It also supports the dual-failure-tolerant avionics, which are part of the Shuttle safety system. Simulated avionics boxes were installed on the structure. They will be monitored during the acoustic vibration test at GSFC. The deployment adapter will be returned to the Sycamore Test Facility late in August for the structural test program.

What's the Construction Near KM Building 1?



Construction has started on the San Diego Earth Station for the Integrated Services Digital Network. ISDN is the new General Dynamics satellite-based private long-distance communication system, due to be operational by early next year. The network will carry voice and high-speed data among General Dynamics divisions.

The Earth Station is being constructed between buildings 1 and 26 at Kearny Mesa (artist's rendering above). The site was chosen to make use of the two buildings as shielding from nearby terrestrial microwave interference. The dish will be

30 feet in diameter and will stand as tall as building 26.

Identical Earth Stations are being installed at Pomona, Fort Worth, St. Louis, Land Systems, and Electric Boat. Initially, the dishes will be aimed at Westar IV, using transponder space leased from American Satellite Corporation, which will operate the network under contract to General Dynamics.

TOMAHAWK SCOREBOARD

Tomahawk T143 attacked a land target with a conventional warhead for the first time on July 25 in a test conducted at the Pacific Missile Test Center's Sea Test Range. Launched from a submerged submarine, the Tomahawk flew a land-attack mission over the range, making several passes over San Clemente Island. After the navigation portion of the mission was completed, the missile hit its target, a concrete structure on the island.

Employee Achievements Recognized on 767 Strut Program



767 Employee Suggestion Evaluation committee members were congratulated by ES analyst Evelyn Cain (middle); Lee Jacobson, Quality Assurance; Mel Clayton, 767 deputy program director; Mike Ruddy, Industrial Engineering; and Harry Gaugh, Operations supervisor. Not available for photo: Ken Doerr, Industrial Engineering, and Steve Beymer, Manufacturing Engineering.

The 767 strut production personnel and representatives from Motivational Programs got together on July 26 to recognize a number of outstanding contributors. George Williams, director - Aircraft Operations, presided over the event and praised the quality achievements of the 767 program. "In the forty years I've been here," Williams said, "yours is among the best quality workmanship I've seen."

Employees from the 767 area have participated in innovative teamwork projects that involved everyone. For example, production workers, supervisors, inspectors, and other support personnel were members of Quality Circles. In addition, the 767 program was the first to set up a committee to help evaluate Employee Suggestions more quickly.

The 767 team produced a dramatic decrease in the number of hours to build a strut - from 2,800 hours when the program first began to 1,220 hours as the program winds down. Now that the program is ending, employees will be reassigned to other areas, primarily the KC-10/DC-10 area, which is accelerating its delivery schedule. Williams told the group that the skills they developed during the 767 strut production program will be much needed in their new areas.

—OVER—

Let's All Help with Security

The people responsible for destroying DoD-classified material are having trouble completing their job. Paper clips, staples, and metal clamps left on documents interfere with the document shredder, and the pulverizer blades must constantly be replaced. Typewriter ribbons and tapes encased in plastic cause problems, too. Because the amount of classified material destroyed daily is so large, an excessive amount of time is spent removing metal and plastic fasteners.

We can all help solve the problem. If you handle classified material, remove all metal and plastic fasteners before turning it in to your classified document control station for destruction.

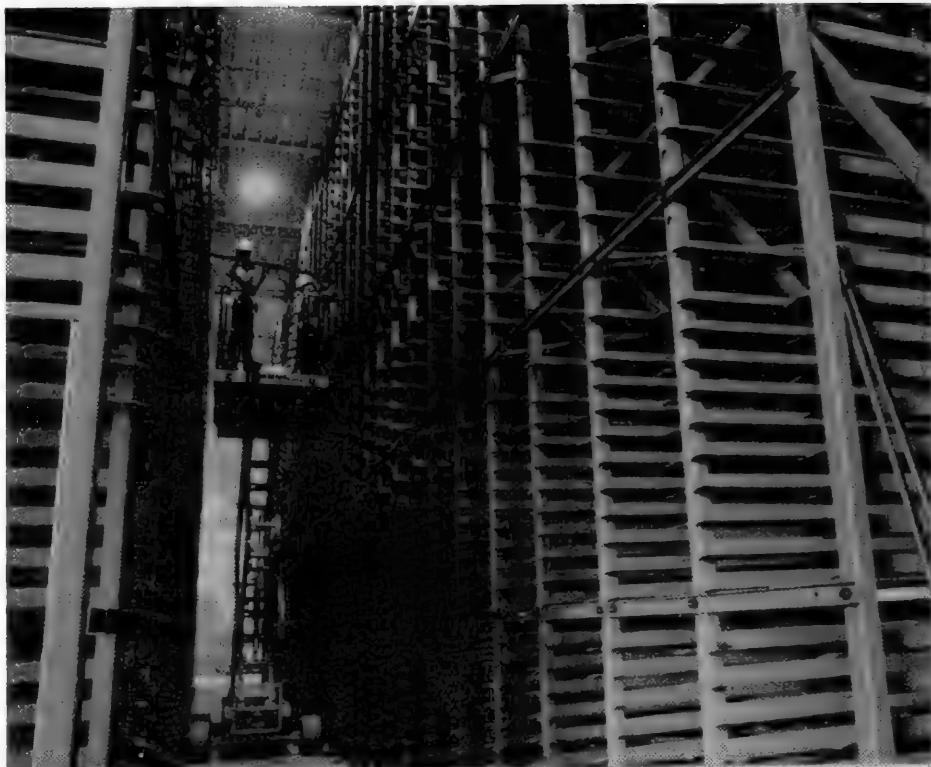
QA Employee of the Month: Steve Lubliner



Rudy Molina, director - Quality Assurance, Steve Lubliner, and Chuck Burgi, Advanced Programs Quality Assurance manager.

Steve Lubliner, a senior reliability engineer in Advanced Programs, has been named the Quality Assurance Employee of the Month for June. Steve organized and presented the Quality Improvement Program for Advanced Programs in addition to serving as a QIP team member for the Air Force Aeronautical Systems Division. Lubliner also coordinated colocation for a failure analysis laboratory, prepared a program standard repair manual, and developed an operating life-cycle recording system for Advanced Programs. His nomination describes him as a "highly motivated individual with effective organizing ability." Congratulations to the QA Employee of the Month.

Just a Reminder: Please drop Convair return-to-sender envelopes into the outgoing mail as soon as you receive them. Envelope recycling is a quick and easy way to keep costs down.



What's New In Facilities?

The huge blue racks in the east end of Kearny Mesa building 5 are part of the high-density, automated warehouse system currently under construction. When the system becomes operational late this year, three high-speed cranes on rails will whiz up and down the aisles of the system picking up parts from the 14,000 racks. The cranes will deliver their loads to the work stations, where the operators will either take or replenish parts in the pans. The system, computer-controlled at operator work stations, also includes a pallet rack area for storage of bulk items on T-carts and pallets.

PLFCU Announces Photo Contest

Point Loma Federal Credit Union invites Convair members to take part in their "Spirit of the Peninsula" photo contest. Submit your favorite photos that best depict the spirit of the Point Loma peninsula area. Seventeen winners will take home \$50 to \$300 cash. For complete information, contact your PLFCU branch or ask about it at your next visit.

Opportunities from the NMACC

Introduction to Supervision (first-line supervisor course 1). The new start date is Thursday, August 9, 4:30 to 6:30 p.m., at Lindbergh Field building 1, south mezzanine, column J-9, accounting conference room. Sign up with facilitator Rudy Cruz, 27313.

From the Health-Fitness Center August Is Exercise Month

Shape Up. August 6. KM, 4:30 p.m.; Harbor Island, 4:45 p.m. Preregistration required.

Yoga Fitness. August 7, 4:45 p.m., Missile Park.

Aerobics with Ava. Second-shifters, this class if for you. July 30, 1:00 p.m., CRA auditorium.

For more information or to register, call the HFC, 39921.

Bus Pool Openings

Bus pool openings are available for Lindbergh Field and Plant 19 employees on the 7:00 a.m. to 3:30 p.m. shift who commute from El Cajon. Morning pickup points are the Pinnacle Peak Restaurant and the intersection of Mollison and Madison. Call Bruce Smith, 579-5236, or Everett Shackleton, 28723 or 449-2389, for details.

Employment

For the week ending July 20, employment was 11,724.

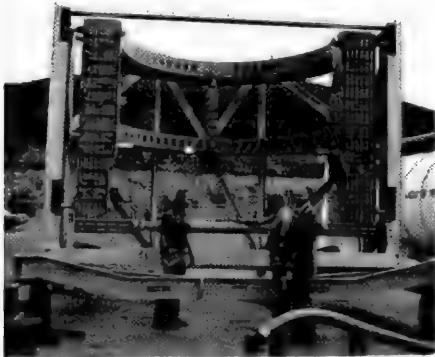


CONVAIR Weekly Log

August 6, 1984

Published by the Convair Division of General Dynamics

Shuttle/Centaur CSS Arrives at Sycamore Canyon Test Site



A significant Shuttle/Centaur program milestone was achieved by the delivery of the first production Centaur Support Structure to our Sycamore Test Facility on August 3. Major design evaluation tests will be conducted on the CSS and later on the Centaur G-Prime test vehicle. The tests will be performed during the next eight months by Sycamore test personnel. The CSS was assembled by Department 031 at our Kearny Mesa plant.

The CSS supports the Centaur vehicle in the Shuttle cargo bay and provides a launch platform for Centaur after the Shuttle reaches orbit. The CSS will return with the Shuttle orbiter to be used again.

SICBM Program Update

Work continues on Small ICBM program concept definition contracts awarded earlier this year to Convair by the Air Force Ballistic Missile Office. Air Force funding has been added to both the weapon system concept and to the hard mobile launcher programs to provide for additional contract tasks. Present HML schedules call for delivery of scale models to the Sandia Test Laboratory in September and Phase II proposal submittal in October. In December, the Air Force will select two contractors for pre-full-scale development.

The missile Phase II proposal date has been extended to January 1985, and a single assembly test and systems support contractor will be selected in April 1985.

The small missile program continues to receive strong congressional support as part of overall ICBM modernization.

ESD Awareness – No Static, Please!

Since April 1983, an extensive program has been under way at Convair to make employees aware of the importance of protecting electronic parts, packages, assemblies, and systems against damage from ESD.

ESD stands for electrostatic discharge. A simple example of ESD is the shock you get if you walk across a carpet and touch a doorknob. At home, ESD may only be a nuisance, but in the workplace, where 100% reliability is demanded of the products we build, ESD can cause problems.

Part of the awareness program is to teach employees that even though they may not sense ESD directly through touch, hearing, or sight, it is still present and can do damage. For example, to feel ESD takes 3,500 volts. To hear it takes 4,500 volts. To see a spark takes 5,000 volts. But less than 500 volts – not enough to notice through human senses – is enough to damage almost any semiconductor in use today.

The damage incurred may only be visible under high-powered microscopes, but it causes degraded performance in components that may pass diagnostic tests in manufacturing and later fail under certain conditions in the field or in flight. About 90% of ESD-caused failures are caused by degraded performance. Only 10% are termed catastrophic – where damage is visible and the component is easily isolated and replaced.

Once employees are aware of what causes ESD and the damage it can do, the goal is to prevent it. Some prevention efforts can be seen in areas that assemble electronic parts. Personnel there have to be trained and certified to handle ESD-sensitive materials. Cautionary signs and labels also alert personnel to ESD danger (see photo).

Prevention efforts reach far beyond the assembly and test areas, however, to ensure that ESD-sensitive parts are protected from the time they first enter the manufacturing process at Convair until finished products are delivered to our customers. Facilities installs ESD-protective materials

in workplaces. Procurement makes ESD requirements known to suppliers. Maintenance sees that topical antistats are used in ESD-protected areas. Parts Engineering keeps Receiving Inspection up-to-date on what parts are ESD-sensitive. Material Handling provides the proper tote bags and boxes to handle ESD-sensitive materials throughout the system. Manufacturing Engineering keeps the MOS updated. Quality Engineering verifies that ESD requirements are being met.

Educational Services, which has the primary responsibility for training all personnel who should be ESD-aware and certified, is updating the ESD training package into a taped presentation. To arrange for an ESD presentation, call Educational Services at 39558.

Here is a handy checklist of documents at Convair that contain the requirements and procedures for our ESD program.

MIL Spec	DoD-STD-1686
	DoD-HDBK-263
Engr Spec	760-73543
	0-73543
Mfg Ops Stds (MOS)	1-02989
	1-02990
Hndl/Pkg Std	1-00383
Qual Verif Proc	805.21
	805.21



Gloria Arellano, an assembler in Department 050, is working at an ESD-certified station. Note her wrist grounding strap, ESD-protective smock, and the cautionary labels on the tote box and packaging.

Mark Your Calendar!
Santa Maria Barbecue
Saturday, September 15
Details will be out soon.

—OVER—

Employee Suggestions Second Quarter Awards Grand Prize: Disney World Trip

July 31 was a lucky day for Paul Dewey, an engineer in Quality Engineering Plans Requirements (Dept. 311). His name was drawn from among 25 winners in the Employee Suggestions 1984 second quarter drawing, winning him a trip for two to Disney World in Florida.

Paul started working at Convair in January, and he has wasted no time getting involved in the suggestions program. He has eight suggestions being evaluated.

At the recognition event for the winners and supervisors, 24 other employees received special Convair shirts and visors as a thank-you from the E.S. program for their participation. It's all part of the year-long promotion "Good Ideas Are Everyone's Business." Each quarter, anyone who sends in a suggestion is eligible for special drawing awards, which are in addition to the regular award system.

Also, anyone who sends in a suggestion during August and September will receive a bright blue 5- by 8-inch notebook imprinted with the "Good Ideas" logo. The notebook is perfect for jotting down those good ideas about good communication, the third quarter theme.

At the recognition event, special thanks came from Henry Hyman, director - Productivity, and Joe Stelmah, director -



Second quarter Employee Suggestions drawing winners.

Operations Business Management, who said that suggestions are a great way to improve communication and added "keep 'em coming!" (Seventy per cent of all suggestions come from Operations.)

Drawing winners: Louis Caudillo (Dept. 030), Richard Cross (840), John Debevec (267), George Dewey (693), Paul Dewey (311), Bill Engelke (253-3), Gerry Fay (358), Bob Gross (759-9), Paul Hawkins (350), Don Heath (028), Dee Hill (235-1), Glenn Johannessen (036), Mel Miyasaki (650), Angela Minor (038), Bobby Mota (351), Irene Peterson (Vandenberg-985-3), Ron Reekers (350), Henry Richetti (047), Ray Sanchez (043), Ed Sherer (Vandenberg-985-3), Dick Siegal (311), Vern Sydow (311), Gordon Tomic (358), Ken Vaught (639), Gayle Williams (131-5).



Paul Dewey (left) is congratulated by Bruce Marshall, chief - Motivational Programs, after winning the grand prize in the Employee Suggestions drawing - a trip to Disney World.

Do You Have Your Security Handbook?

By now, employees who hold security clearances should have received a copy of the new Security Handbook. If you have not received your copy, call Security and Investigation, 38683.

From the Health-Fitness Center

YogaFitness. August 7, 4:45 to 6:15 p.m., Missile Park.

Power Lifting Contest. August 10, 5:00 p.m., HFC weight room.

WORKOUT. MWF, beginning August 13, 4:30 to 5:30 p.m., CRA auditorium.

Opportunities from the NMACC

Next 'Convairsations with Management' Scheduled. Art Veitch, division vice president - Contracts & Estimating, will lead the next Convairsations with Management on Thursday, August 30, at 4:30 p.m. His presentation will be "Proposal Preparation Process," which will be followed by a question-and-answer session. Convairsa-

tions is a series sponsored by the NMACC that provides a great opportunity for all employees to meet our division staff members and hear first-hand about what's going on in the various functional areas of Convair. Call Jane Duby at 35608 to reserve a seat.

Junior Achievement Volunteers Needed. The NMACC is looking for volunteers to work with Convair's Junior Achievement group. Through J.A., high school students learn about business by setting up and running their own miniature company. For information, call Rick Allen, 28889.

Convair Family Fun Day August 19

You can't beat the prices at this year's Convair Family Fun Day picnic, co-sponsored by the NMACC and CRA. Admission is free, 25¢ will get you a hot dog, and 10¢ a ticket for your child to ride the carousel or train. Best of all, a \$1 donation will get you a ticket for the special drawing grand prize, a 1984 Ford Ranger pickup.

Come on out to Missile Park on Sunday, August 19, from 10:00 a.m. to 5:00 p.m. Bring your family and friends, a picnic lunch, some lawn chairs, and plan to spend the day enjoying all the events lined up by this year's picnic committee.

University of Redlands Rep Here Next Week

A representative from the University of Redlands will be at Convair to talk about Redlands' fast-paced degree programs offered in the San Diego area. Two meetings will be sponsored by Educational Services. The first is at Kearny Mesa, in the building 2 presentation room (above the main lobby) at 4:30 p.m., Monday, August 13. The following week, the same meeting will be held at Lindbergh Field. The time and place will be announced in next week's "Bluesheet."

Employment

For the week ending July 27, employment was 11,722.

CONVAIR Weekly Log

August 13, 1984

Published by the Convair Division of General Dynamics

Last and Largest Machine Move Preparations Under Way at LF**TOMAHAWK SCOREBOARD**

Tomahawk production deliveries during June and July continued to run about one month ahead of contract requirements. We delivered ten production missiles in June and seven more in July. Our cumulative deliveries through the end of July totaled 148 Tomahawks. In addition to the production deliveries in June and July, we also refurbished and delivered six vehicles to support flight test requirements.

KM Building 5 Lunch Area Relocated

Because of construction on the automated warehouse system in building 5 at Kearny Mesa, the large lunch area at column F-13 has been relocated to column C-5.

When It's Right the First Time, It's Really Right

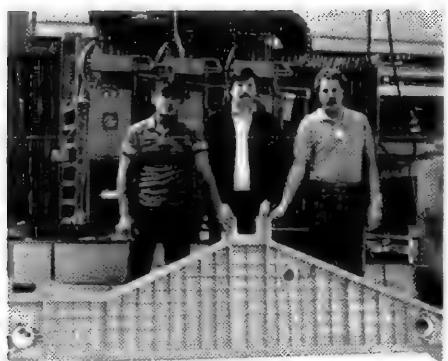
NC Programming had a big breakthrough to celebrate recently when a part for the Shuttle/Centaur CSS (Centaur Support Structure) was proofed perfectly the first time. Normally after a part is proofed and inspected, minor adjustments must be made to the program before the part is fabricated from production material. These proofing cycles add up if the part is extremely complex. This time, the NC programming was done, the job was set up on the factory floor, the machinist ran the proof, and it was right the first time. Showing off their handiwork in the photo (right) are Jesus Gomez, an NC machinist in Department 015, and Bob Doty and Gary Van Winkle, both NC programmers.

Work is in progress at Lindbergh Field building 3 to prepare for the relocation of the 500-ton capacity Sheridan stretch press from Kearny Mesa building 5. Because of the size and weight of the machine, the loads created when it operates, and the nature of the soil at Lindbergh Field, the preparations for the machine's foundations are extensive. The machine weighs approximately 250 tons.

Normally, the water table at Lindbergh Field is about 8 feet deep. Because of the dry weather we've been having in Southern California, it's about 12 feet now. This has made excavation easier as contractors dig the hole to prepare for the foundation. The hole is 86 feet long, 22 feet wide, and 12 feet deep.

Sheet piling is being used around the edges of the foundation (visible in the photo left), and the stretch press will actually rest on four pedestals supported by steel H-piles. Pile driving is being driven down to 60 feet to provide adequate bearing. The last driving of the piles requires 90 blows per foot by a huge hammer.

The Sheridan stretch press was originally installed at Kearny Mesa in 1970 and is used primarily to form aluminum skins for the KC-10/DC-10 fuselage. This machine move is the last of almost 600 machine moves at Convair accomplished for the consolidation and colocation of fabrication work.



—OVER—

New Tax Policy on Tuition Reimbursement

Blanket educational tax exemption for tuition reimbursement expired December 31, 1983, and Congress did not reinstate it. Therefore, educational assistance payments or reimbursement for college tuition will be considered taxable wages to employees, subject to applicable withholding taxes, unless the course is job-related. IRS guidelines specify that courses of study eligible for refund are limited to work-related subjects or subjects required for college degrees in a work-related field.

Here's the new policy on tuition reimbursement.

- Courses in a non-degree program will not be taxable to the employee if they are work-related.

- Courses in undergraduate degree programs will be taxable if they qualify the employee for a new skill or profession. (A junior college program normally will not qualify one for a new skill or profession unless the employee intends to transfer credits toward a college degree.)

- Courses in advanced degree programs will not be taxable as long as they are related to an employee's present duties in that field and do not qualify the employee for a new position or career.

Employees who apply for tuition reimbursement will receive a memo explaining Convair's policy and containing a determination whether the request is taxable or nontaxable. If the employee disagrees with the determination, written evidence to the contrary signed by the employee and supervisor must be submitted within two weeks to Educational Services. Call Educational Services, 39558, if you have questions.

Security Tip

The security of classified information is a significant aspect of this division's operation. Security is an individual as well as a supervisory responsibility that requires constant attention. Cleared employees must ensure that classified information is protected from unauthorized disclosure during use.

- Turn classified material face down on your desk or secure it when individuals who are not cleared or do not have a need to know are in your area.
- Be sure classified conversations cannot be overheard.
- Lock your security container when you leave its immediate location.
- Challenge unknown or unauthorized people in your work area when classified activity is in progress and at other times.



General Manager John McSweeney hosted a special breakfast on July 27 to honor those employees who have completed 35 or 40 years of service to General Dynamics. Each employee was presented with an individually selected service award and special thanks for many years of dedicated service. Above (left to right): John McSweeney, Theodore Tanalski (40 years), Ernest McCormick (35 years), Rudy Molina (staff), Bill Wise (staff), Robert Graham (35 years), Dan Da Pra (staff), and Joseph Ramsey (35 years).

Savings and Stock Plan Values for June

	1982	1983	1984
Salaried			
Government Bonds	\$ 2.9708	\$ 3.5030	\$ 3.7263
Diversified Portfolio	1.9021	3.3103	2.9086
Fixed Income	1.3531	1.5146	1.7006
Hourly			
Government Bonds	2.9679	3.5012	3.7245
Diversified Portfolio	1.9413	3.3815	2.9552
GD Stock	\$28.0000	\$54.0000	\$52.5000

Opportunities from the NMACC

Next 'Convairations with Management' Scheduled. Art Veitch, division vice president - Contracts & Estimating, will lead the next Convairations with Management on Thursday, August 30, at 4:30 p.m. His presentation will be "Proposal Preparation Process," which will be followed by a question-and-answer session. Convairations is a series sponsored by the NMACC that provides a great opportunity for all employees to meet our division staff members and hear first-hand about what's going on in the various functional areas of Convair. Call Jane Duby at 35608 to reserve a seat.

From the Health-Fitness Center August Is Exercise Month

WORKOUT. Starts August 13. Meets MWF 4:30 and 5:30 p.m., CRA auditorium.

Rock A'Robics. Starts August 20. MW, 4:30, CRA bandstand; TTh, 4:30 and

5:30 p.m., CRA auditorium.

Exercise and Training: Going for the Gold. Lecture by Kurt Madden, August 23, 5:00 to 6:30 p.m., CRA park pavilion. Please preregister.

For more information or to register, call the Health-Fitness Center, 39921.

University of Redlands Presentation

A representative from the University of Redlands will present information about their fast-paced degree programs at 4:30 p.m., Monday, August 13, in the building 2 presentation room at Kearny Mesa. Monday, August 20, the same presentation will be given in the Lindbergh Field building 14 auditorium at 4:00 p.m. The meetings are sponsored by Educational Services.

Employment

For the week ending August 3, employment was 11,727.

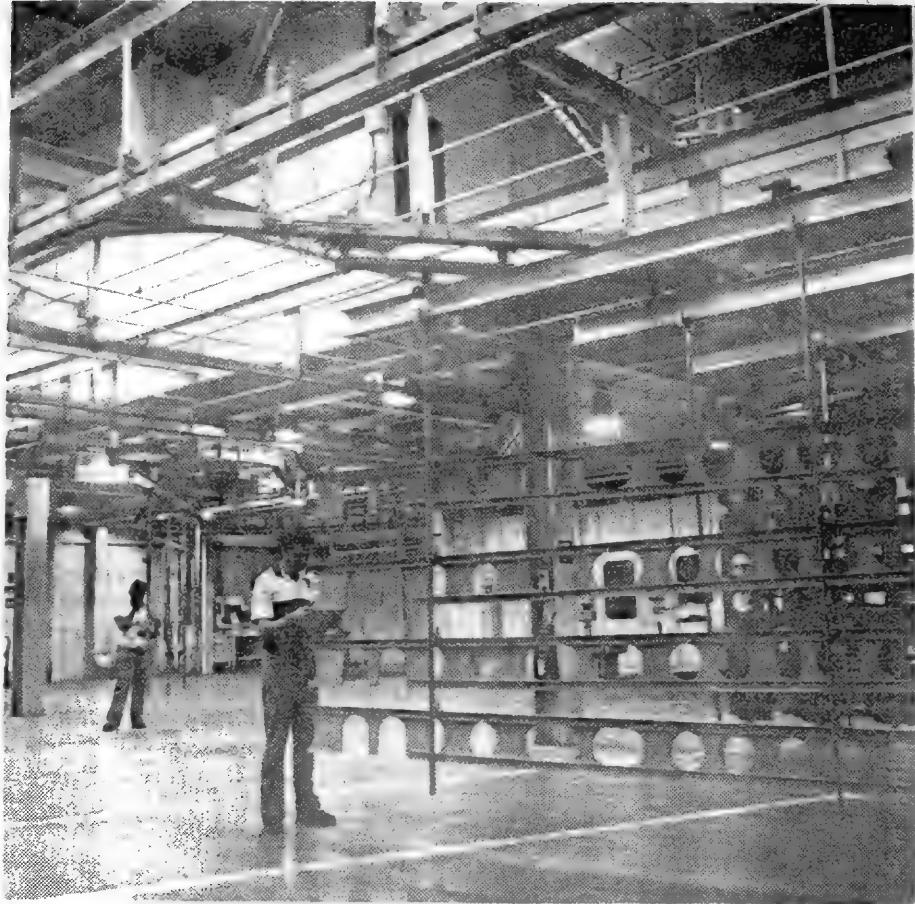
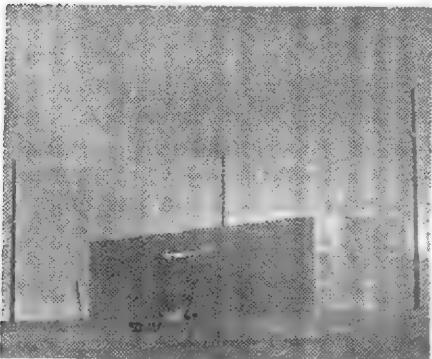
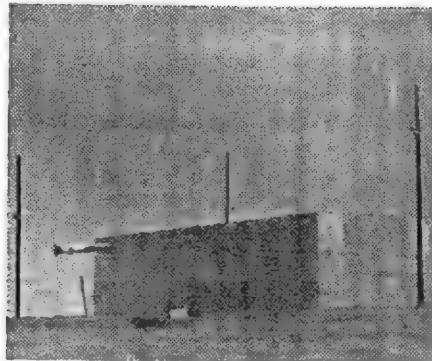
Weekly Log

August 20, 1984

Published by the Convair Division of General Dynamics

Tomahawk Live Warhead Test July 25

Last week the Navy released photos of the Tomahawk flight that took place July 25 at the Pacific Missile Test Center Sea Test Range. T143 was the first Tomahawk to attack a land target with a live conventional warhead. Launched from a submerged submarine, the Tomahawk flew several hundred miles over the range, made several passes over San Clemente Island, and hit a concrete structure on the island.



Gwendolyn Smith, an identifier, and Ron Benz, a painter, both in Department 002, are checking out some KC-10 parts

New Paint System Up and Running at Lindbergh Field

Lindbergh Field building 75 is the home of a new conveyorized paint system. The system makes it possible for a single handling operation to get production parts from loading through processing and painting. The fact that the system is overhead also creates a lot of extra floor space for work areas.

The photo shows only a small portion of the overhead monorail at the end of the line. The monorail system contains over 2,000 feet of track. Parts are first loaded on low bars, each capable of holding up to 750 pounds, which are in turn loaded on the monorail running throughout building 75. Several spray booths are located along the monorail. Small detail parts are painted on a cart system.

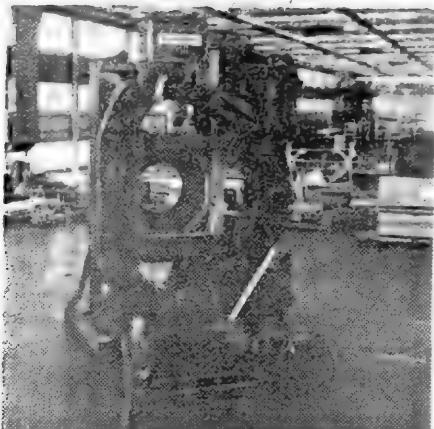
New CRAD — SLATS II Photovoltaic Concentrator

Convair has been awarded a follow-on contract by the U.S. Air Force to continue development of the Survivable Low Aperture Trough (SLATS) solar concentrator, a device that converts solar power into electricity. This technology is being developed to improve spacecraft performance by reducing costs and improving the hardness of solar arrays. The development is being sponsored cooperatively by the Air Force Wright Aeronautical Laboratories, the Naval Research Laboratory, NASA Lewis Research Center, and NASA Marshall Space Flight Center.

SLATS II builds on the current contract by developing advanced mirror and solar cell technology. SLATS demonstration

(cont. on back)

models will be tested extensively in space environment conditions. All efforts will subsequently lead toward an advanced development program, culminating in a flight test, in the late 1980s. Ted Stern is the program manager.



Dave Hackley, LCP program manager, stands beside the magnet that was successfully tested.

Magnet Passes Milestone Test

The Large Coil Program magnet passed a significant test at Oak Ridge National Laboratory in Tennessee last week. The magnet was charged to 4,100 amperes, slowly discharged to 2,500 amperes, and then "dumped" (rapidly discharged) from 2,500 down to 0 amperes to simulate catastrophic conditions during operation. The magnet performed according to prediction and the test was completely successful.

General Dynamics entered the superconducting magnet business in 1977 with the Large Coil Program. Our magnet was delivered to Oak Ridge in May 1983, the first of six similar magnets that will eventually be tested together in an array simulating how the magnets perform in a fusion reactor, which generates commercial electric power.

Superconducting magnets are made of special alloys, which, at the very cold temperatures of liquid helium, will transmit a current with no resistance to its flow. Thus, a very high magnetic field — necessary to contain the fusion reaction — can be produced with very little electric power consumption. Before superconducting magnets, the field had to be produced through copper magnets, which consumed too big a share of the reactor's output.

Redlands Presentation

A representative from the University of Redlands will present information about the fast-paced degree programs Redlands offers in the San Diego area. The meeting is in the Lindbergh Field building 14 auditorium, Morsada, August 20, at 4:00 p.m.



A.



B.

Not many people know about the behind-the-scenes work that helps Convair's Tomahawk program run smoothly. A master delivery schedule must be developed to coordinate Tomahawk shipments between our plant and the customer. Security and transportation arrangements are made well in advance and integrated into the schedule. Recently, Paul Frye and Scott Mumford, both logistics administrators in Department 270, received recognition for the successful efforts in coordinating all Tomahawk deliveries and receipts. A. George Roos (right), director - Integrated Logistics Support, and Fred Johnson (left), Depot Operations, presented the EXCEL citation to Mumford. B. Frye received his citation from Rich Ladera (left), chief - Field Services, and George Roos.

KM Building 5 Telephone Cutover

Beginning Monday, August 27, a new Dimension telephone switch will be serving the Kearny Mesa building 5 mezzanine and first floor areas (columns F-H, 1-13).

The cutover will begin on Friday, August 24, at 6:00 p.m., and the new switch will be fully operational by the following Monday morning. Users in those areas will receive new telephone numbers.

A division notice and directory addendum are being distributed to all supervision. Additional copies will be available at Division Distribution.

Reminder: Value Engineering Coming Up

The next Value Engineering workshop will begin Monday, September 17, at 7:30 a.m. in the temporary classroom 1 at the southwest corner of building 5 Kearny Mesa. Call Bill Frank, 38206, for more information.

From the Health-Fitness Center August Is Exercise Month

For Second-Shift Employees. Aerobics with Ava. MWF, 1:00-2:00 p.m., CRA room A. Ongoing.

WORKOUT. Starts August 13. Meets MWF 4:30 and 5:30 p.m., CRA auditorium.

Rock A'Robics. Starts August 20. MW 4:30, CRA bandstand; TTh, 4:30 and 5:30 p.m., CRA auditorium.

Exercise and Training: Going for the Gold. Lecture by Kurt Madden. August 23, 5:00 to 6:30 p.m., CRA park pavilion. Please preregister.

For more information or to register, call the Health-Fitness Center, 39921.

Opportunities from the NMACC LF Speechcraft Class

Lindbergh Field Toastmasters are offering Speechcraft, an eight-week interactive program that teaches you presentation techniques and speech organization guidelines. You will also learn how to answer on-the-spot questions. Classes will meet on Tuesdays, September 4 through October 23, from 4:30 to 6:30 p.m. on the building 4 mezzanine. The cost is \$10.00. For more information, call Bill Rodgers, 27074.

Fall SDSU Television Courses Sign-Up

Three courses are scheduled for on-site presentation via television from San Diego State University for the engineering master's program this fall: Introduction to Digital Signal Processing, Rotor Dynamics, and Experimental Methods of Heat Transfer and Fluid Mechanics. Those planning to enroll should notify Educational Services, 39936, by Friday, August 22. Registration and the first class will be Tuesday, September 4, in temporary classroom 2 at the southwest corner of Kearny Mesa building 5.

Security Tip

Convair's visit control procedures are designed to protect classified information from unauthorized disclosure. These guidelines also take into account visitor safety. Visits are limited to those times when people have to do business with the company or to company-sponsored events.

Employment

For the week ending August 10, employment was 11,725.

CONVAIR Weekly Log

August 27, 1984

Published by the Convair Division of General Dynamics

Teamwork Counts in Aircraft Logistics Support

People from Receiving Inspection, OSP Stores, Aircraft Programs Change Board, DC-10 Assembly Sections F and G, DC-10 Assembly Support, and Service Engineering received a group EXCEL award for their teamwork and support in supplying parts to McDonnell Douglas for two major modification programs and the repair of a damaged DC-10 in Panama. Approximately 1,800 spare items in various quantities were shipped in the first six months of 1984. During the same period in 1983, we shipped 300 items. For the Panama repair, Convair fabricated three large portions of the DC-10. Two letters of commendation were received from McDonnell Douglas for Convair's effort.

July Suggesters Share Good Ideas, Earn Rewards

A total of \$10,796 was earned in July by 64 employees who shared their good ideas with Convair through the Employee Suggestions program. The suggestions of 13 people had cost savings that earned them cash awards of \$200 or more. They are:

Suggester (Dept.)	Amount
W.E. Carriker (455)	\$230
Thomas D. Edwards (350)	424
Gerry Fay (358)	482
Erick Helland (015)	1,610
Darryl Jouppi (036)	415
Lorraine Kimball (194-5)	483
William B. Lundstrom (198-2)	480
Wade Maurer (311)	1,610
John Millman (661)	324
Luis Miranda (358)	249
Robert D. Nowka (036)	271
Alfredo Tejada (036)	367
Linda Weidenkeller (230)	472

Erick Helland, corrective action assignee — Production Support, and Wade Maurer, quality engineer, split the highest cash award made in July. They teamed together to come up with the idea for a single drill fixture for drill and tap operations on the cruise missile aft body — operations that previously required five separate tools and seven separate setups per part. The two suggesters were concerned about the number of rejections under the old procedure, and are proud to report that since the tool was implemented, there have been zero rejections.



After the drill fixture was implemented, Lou Wahl of Tooling designed a preset kit that precisely controls the depth of tap drills and taps, further enhancing the cost and quality of the operation.

Helland and Maurer expressed appreciation to Tom Ashcraft, operations supervisor — Manufacturing, who did the work instruction documentation, and Ed Senne of Industrial Engineering for the detailed cost savings calculations in the method improvement analysis.



Wade Maurer (left) and Erick Helland point out the drilling fixture (top of aft body section) that brought about their Employee Suggestion award.

GLCM Wing Passes Readiness Review; Convair ICS Team Gets Good Marks

The GLCM 487th Tactical Missile Wing, operating from one of the European bases, recently underwent a NATO operational readiness review while on the dispersed exercise. The wing satisfactorily passed

all elements of the review. The multi-national inspection team of representatives from NATO countries rated six categories of the review "excellent," and one of them went to the Convair Interim Contract Support team who accompanied the wing on the exercise. George Roos, director — Integrated Logistics Support, said that ICS performance was cited in the final report on the exercise. According to the report, the team performed in an excellent manner overall. They were obviously well trained, and support of the wing was outstanding.

Extraordinary Achievement Award to Lauer



Keith Lauer (center), an engineer in Materials and Process Engineering, was given an Extraordinary Achievement Award recently for his many outstanding job-related accomplishments. Lauer provides Materials and Process Engineering with problem-solving assistance in launch vehicle production at Kearny Mesa. As a

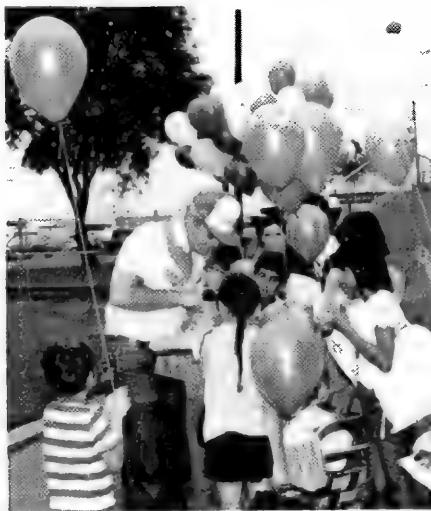
—OVER—

member of the corrective action team to improve yield of final printed wiring board assemblies, Lauer was credited with initiating a \$637,000 cost reduction project by preventing PWB scrap. Bruno Bracka (left), director - Structures & Design, and Ron Torgerson, chief - Engineering Project Support, were on hand to offer congratulations and thanks.

July Retirees

Convair's thanks and best wishes go to these summer retirees.

Name (Dept.)	Years of Service
Paul R. Barley (015-0)	
Machinist Group Leader	38
Willard E. Caddell (604-0)	
Engineering Specialist	27
Sterling A. Campbell (117-4)	
Senior Project Engineer	32
Willis L. Carr (463-3)	
Engineering Specialist	34
Robert D. Coartney (031-0)	
Field Test Mechanic	36
Charles J. Collins (250-2)	
Painter-Maintenance	30
Harry E. Collins (031-0)	
Field Test Electronic Tech	36
Anne Corral (953-0)	
Executive Secretary	28
James E. Coxey (562-0)	
Software Design Specialist	26
Kenneth E. Evans (455-0)	
Jig & Fixture Builder	28
Paul R. Ewing (455-0)	
Painter-Maintenance	30
Mary R. Hardy (196-2)	
Supervisor-Travel Services	41
Thomas P. Hartman (454-0)	
Tool & Die Maker	20
Joseph Haser (979-1)	
Sr. Launch Services Mech	27
Mary Ann Herring (221-7)	
Manufacturing Control Specialist	27
Joe W. Hooker (431-0)	
Manufacturing Engineer	42
Hugo A. Kayes (191-6)	
Financial Supervisor	44
Ralph T. Mulroy (427-0)	
Mfg. Engineering Specialist	43
Alice H. Myers (191-0)	
Accountant	32
Frederick Roetter (527-0)	
Computer Systems Analyst	25
George A. Rummel, Jr. (351-0)	
Mech Field Test Inspector	31
Gerald R. Shirey (756-0)	
Engineering Test Mechanic	41
Bruce E. Smith (064-0)	
Operations Supervisor	29
Edward G. Smith (001-0)	
Special Project Mechanic	5
Edward T. Southworth (250-2)	
Painter-Maintenance	35
Roman F. Stygar (015-0)	
NC-Machine Machinist	25
Max R. Verduzco (232-0)	
Manufacturing Control Supervisor	37
EI Roy H. Vossen (031-0)	
Field Test Mechanic	35
Mary R. Wilson (543-2)	
Computer Operator	35
Louie R. Woody (001-0)	
Group Leader	28



Kids and Balloons — Family Fun Day Picnic Huge Success

A crowd estimated to be 12,000-plus enjoyed a day full of fun at the Family Fun-Day Picnic sponsored jointly by Convair Recreation Association and the NMA Convair Chapter on August 19. According to picnic organizers, the crowd consumed over 9,000 hot dogs during the day and watched as three lucky winners took home drawing prizes. Mario Caracoza, a guest of Convair employee Robert Guerra (Department 015), won the grand prize Ford Ranger truck. Terry Nishida (Dept. 694) won the second prize, a C.B. radio, and Harry Moreno (Dept. 431) won a 35mm camera.

Santa Maria BBQ —

September 15

The Chuckwagon Gang from Vandenberg will prepare their famous barbecued beef dinner for Convair employees, families, and friends on Saturday, September 15. This annual event, sponsored by Space Programs and executive host Bill Rector, begins at noon. Dinner will be served from 3:00 to 5:00 p.m. (or until everyone has eaten). There will be activities and entertainment all day long. The NMACC meeting will be held from 6:00 to 7:00 p.m. Dinner prices are \$5.00 for adults and \$2.50 for children. Tickets are limited to 1,500 people. You can get them from NMACC boosters.

NMACC Announces Tour

A 60-minute tour of Children's Hospital and Health Center, sponsored by the National Management Association Convair Chapter, will start at 5:00 p.m. on Wednesday, September 5. The touring group is limited to 30 people. Call Darlene Conway, 49293, for the tour itinerary and to make reservations.

CPR Class Coming Up

The next class in cardiopulmonary resuscitation will be held on September 5 and 6 from 5:00 to 9:00 p.m. in the Kearny Mesa employee dining room. CPR classes are open to all employees, family, or friends. A registration fee of \$5 per person, due before September 3, will confirm your registration. Call the fire station at Kearny Mesa, 33100, to register. Attend-

ance at both classes is required to receive initial certification or recertification.

Security Tip

Telephones, teletype machines, computers and communication modems, and other communication equipment cannot be used to transmit classified information unless authorized by our Security and Investigation staff. Communication lines can be easily monitored. Contact the Security and Investigation office, 38683, for proper authorization.

Patent Issued to Inventor Lynch

Robert Lynch (Dept. 117-4) has been granted U.S. Patent No. 4,459,915 for a combined rocket motor and warhead. Lynch's rocket motor casing has a number of longitudinal grooves in the outer surface. As the rocket nears a target, pressure in the casing is suddenly increased to burst the casing along the grooves, producing a number of fragments, which impact the target.

From the Health-Fitness Center

In September, the programs and seminars offered by the Health-Fitness Center will focus on your financial health. Details will be available soon.

For information on the Health-Fitness Center, call 39921.

Employment

For the week ending August 17, employment was 11,721.

CONVAIR Weekly Log

September 4, 1984

Published by the Convair Division of General Dynamics

Another LCP Magnet Success

The Large Coil Program magnet successfully passed another series of tests last week. The magnet was run at 10,000 amperes current, which is its full rating. While it was at full current, a half-turn of the wound conductor was driven by an internal heater, out of the superconducting state (current flow with no resistance). When the heater was turned off, the conductor instantly returned to superconducting, which is an indication of excellent performance.

LCP Program Manager Dave Hackley said that this was "not just an important achievement for General Dynamics, but for United States energy efforts as well. It proves that the Oak Ridge Test Facility is now in working order, ready to receive the remaining six magnets (from Convair, General Electric, Westinghouse, Japan, Germany, and Switzerland), and also that the first U.S. magnet is ready for the six coil tests to begin early in 1985."

Work in Progress: Tomahawk Development

A new type of Tomahawk and a new concept in cruise missile technology are being developed at Convair. The BGM-109D missile variant is being designed with two major new features. The payload section, forward of the wing, is being designed as a universal bay. This feature, similar to a bomb bay in an airplane, will permit various payloads to be integrated into the missile with minimal development effort.

The second feature is multitarget capability; the missile can be directed to at least two separate targets. A portion of the missile's submunition payload could then be dispensed at each target.

Currently, Convair is under contract to RCMP for the development of the BGM-109D universal payload section. Development testing is in progress, which will lead to initial missile flight tests in 1985 and operational deployment several years later.

**Next Weekly Log:
September 17**

Because of the short holiday week, there will be no Weekly Log Monday, September 10.

**A New Look for Convair Guard Captains**

If you haven't noticed yet, our guard captains and chiefs have new uniforms! Our photographer caught up with them last week at their monthly staff meeting with Bob Mueller, manager - Industrial Security (right). This is the only time the group, whose members are on duty 'round the clock, are in the same place at the same time. From left to right: Joe Catlin, Chuck Paularena, Bob Murkerson, A.J. Pavlik, Clarence Miller, Glenn Worley, M.D. "Willie" Williams.

Hunt, Quality Assurance Employee of the Month for August

Pat Hunt, an inspector in the Atlas/Centaur area, was named August Quality Assurance Employee of the Month. She brings to her work exceptional ability gained in over 33 years of experience at Convair. She inspects a number of critical

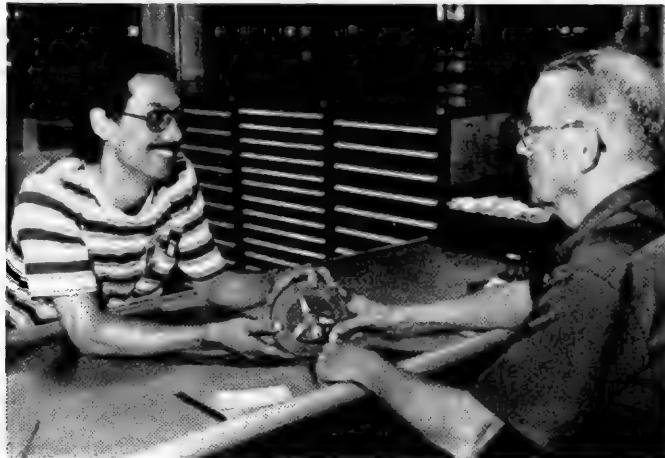
Atlas/Centaur parts including the power pack, cone, and rings, all of which require complex setups. She handles special inspection techniques and documentation with a minimum of inspection escapes and often has ideas for more efficient inspection methods. And she shares that expertise freely with new inspectors and apprentices. Presenting the award with thanks and appreciation are Bob Williams, chief - Quality Control, and Rudy Molina, director - Quality Assurance.

**JOIN YOUR CO-WORKERS
&
LEND AN ARM
Give Blood
During
Convair & Western Center
Blood Drive
October 1 — 5
Reservation details in next issue
of Weekly Log**

—OVER—

A Tour of Cutter Support: Part I

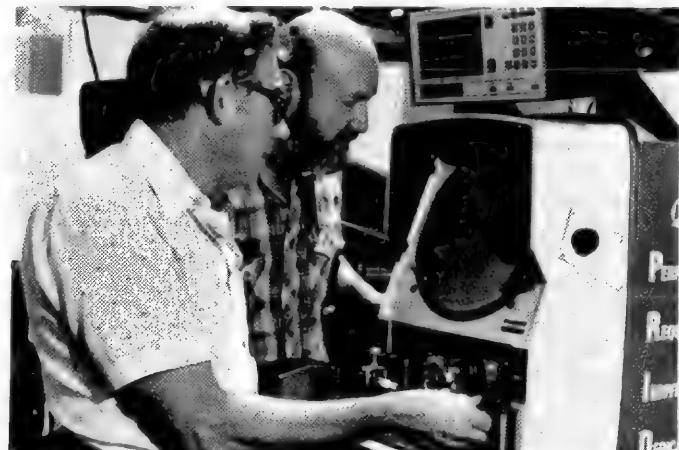
Building quality into Convair products starts with the right cutting tools. The 64 people who work in Cutter Support at Lindbergh Field building 1 are there to see that the hundreds of thousands of cutting tools used in all Convair production programs are right — everything from the tiniest carbide insert to the largest mill cutters like the 12-inch-face mills. They work with tolerances of less than one-thousandth of an inch — less than one-third the size of a human hair. They produce quantity as well as quality. During a 12-month period, they will grind 140,000 standard and special cutters, recondition 225,000 standard drills, and preset over 50,000 tools for the NC milling machines. Their work is important: you may have a cutting tool worth only \$2, but if it's not right, it could scrap a \$10,000 piece of metal. Part Two of the Cutter Support tour will appear in the September 17 *Weekly Log*.



a b



a b



c d



A. Mario Rivera, a crib attendant, is filling the request of Hank Naish, Department 015 machinist, for a special tool. The cutter support tool crib handles thousands of varieties of tools for the machine shop. It's the largest crib at Convair. **B.** Drill Grinders Davy Miller and Jerome Davis are reconditioning standard drills to control specifications, which will ensure quality hole fabrication in the factory. **C.** Elida Yanez, Rick Bailey, and Laura McFarland are small tool processors. They are responsible for maintaining both standard and special cutter inventories and filling kits for preset operations. **D.** Marvin Ladd and John DeWitt, tool and cutter grinder machinists, are verifying the quality of special cutter geometries and standard tools on the optical comparator.

People Notes

Art Cornish, a missile mechanic in the launch vehicle assembly area, was the recipient of a letter of thanks recently. Cornish found and returned a wallet containing a large amount of cash to a NASA representative who had visited the area, inspiring these words from the owner: "It's very refreshing to know that we have honest people like you in this great country of ours."

Convair Scientist Teaches Mars Course. Bruce Cordell, Advanced Space Programs, is teaching a course on Exploration and Colonization of Mars this fall through the University of California San Diego Extension program. The class meets on Thursdays from 7:00 to 10:00 p.m., Sep-

tember 20 to December 6. For information, call USCD Registration, 452-3400, 232-7321, or 436-0859.

Security Tip

Our security self-inspection program will be conducted during September. This year the Defense Investigative Service audit will also take place during September, beginning the 10th. Cleared employees should prepare for the self-inspection by reviewing the Employee Security Handbook, paying particular attention to the self-inspection procedures and the DoD reporting requirements. If you do not have a copy of the handbook or if there are any questions about self-inspection procedures, call Bob Rodriguez, 38167.

From the Health-Fitness Center

September is Financial Health Month
Free lunch hour lecture series. 11:30-12:15, CRA Pavilion.

- Sept. 12 — Financial Independence by Age 65
- Sept. 19 — Tax Guidelines for Middle-Income Americans
- Sept. 26 — Estate Planning
- Oct. 3 — Putting Plans into Action

For more information or to register, call the Health-Fitness Center, 39921.

Employment

For the week ending August 24, employment was 11,703.

CONVAIR Weekly Log

September 17, 1984

Published by the Convair Division of General Dynamics

Ross Named Suggester of the Year

JoAnn Ross, a senior buyer in Procurement, was presented with the 1983 Employee Suggester of the Year award in ceremonies at Lindbergh Field September 5. Ken Lake, division vice president - Operations, presented Ross with a recognition certificate and merchandise award. Her name will be added to the permanent plaque of previous winners, which will go on display at Lindbergh Field. Ross's suggestion to relax certain packaging requirements for the cruise missile program resulted in a first-year net saving to Convair of \$227,600, earning her the maximum Employee Suggestion award of \$10,000.

*Ken Lake and
JoAnn Ross, Suggester
of the Year.
Congratulations!*



CARING IS SHARING 1984 Con-Trib Campaign September 17-28

At the Employees' Con-Trib campaign kickoff on September 13, this year's department coordinators received special thanks from Jim Greene of United Way and Maxine Coover of CHAD for Convair's faithful support through our Con-Trib Club. KFMB television weatherman Clark Anthony was also there in person and on film to speak about the work of United Way/CHAD in San Diego County. Our Employees' Con-Trib campaign will run for two weeks starting today.

Here are some often-asked questions about Con-Trib.

What is Con-Trib?

The Employees' Con-Trib Club is an association of Convair employees who donate funds through payroll deduction, which are directed to charitable institutions in San Diego County.

How did Con-Trib get started?

Back in 1952 when the club was organized, employees were faced with many time-consuming fund-raising drives. Representatives of management and unions met to plan one organization that would solicit charitable funds at one time.

Who decides where the money goes?

The club is governed by a board of directors consisting of seven union representatives and seven management representatives. They review agencies and their needs through personal visits and by examining records. They also work closely with United Way/CHAD. This year, Convair has two employees participating in the Loaned Executive program at United Way: Monroe Jones and Curt Johnston.

Where does the money go?

Ninety percent goes to selected charitable organizations in San Diego County. The remaining ten percent is reserved in the Emergency Aid Fund for the purpose of helping employees with emergency needs.

How much is a "full share" of giving?

The payroll deduction card that each employee will receive lists in dollar amounts what a full share is in relation to various pay levels. Full share giving equates to .08 of 1% of your base rate of pay. At an annual salary of \$25,000, .08 equals \$7.69 per pay period. At an hourly wage of \$12.00 per hour, .08 equals \$3.84 weekly. At the minimum giving of .02 of 1%, the amount per pay period for a salaried person at \$25,000 would be \$1.92 or \$0.96 weekly for an hourly wage rate of \$12.00 per hour.

What's in it for me?

You help your community — which is helping yourself. In addition, part of the money stays right here at Convair to help co-workers who may have emergency needs.

How will I be contacted?

Your department coordinator will distribute campaign information. If you decide to become a full-share giver, you will receive a special pin.

MPL Goes On Line In Space Programs

Convair's new Master Parts List system passed another milestone on September 10 when it was implemented on all division space programs. MPL first became operational in the Boeing 767 Strut program in May. Adding Space Programs was a significant increase in the system — from 5,000 to 50,000 parts.

MPL will ultimately improve the quality and timeliness of material and manufacturing parts requirements as well as T&O planning. With MPL, independent parts lists can be generated earlier than before, and validation will be more efficient because updates and inquiries are performed on line in real time.

Need to know more about MPL? Con-

—OVER—

tact one of the 36 qualified MPL instructors in departments that have identified a need for MPL instruction. If you need help in locating one of them, call Jim Cleghorn, Educational Services, 39941.

Make a Reservation to Lend an Arm

Call today to reserve time to donate blood during the Convair and Western Center Blood Drive. All employees benefit from the Convair Reserve Fund by either a reduced processing fee or no fee at all, depending on your insurance coverage. There is never a charge for the use of units of blood for any employee or dependent family members. The San Diego Blood Bank is the only supply source for all 30 San Diego County hospitals, and donations of 300 pints a day are required to supply the community's need. Our drives are given top priority. Make your reservation early to donate and receive your "It Takes All Types" T-shirt.

Kearny Mesa

- Call 33820 for appointment
- Oct. 1 and 2, 8:00 a.m. to 1:00 p.m.

Lindbergh Field

- Call 28244 for appointment
- Oct. 3 and 4, 8:00 a.m. to 1:00 p.m.

Plant 19

- Call 28244 for appointment
- Oct. 5, 8:00 a.m. to 4:45 p.m.

Cutter Support Tour: Part II

The September 10 *Weekly Log* introduced some of the people who work in Cutter Support at Lindbergh Field. They are the people who grind, recondition, and preset tens of thousands of cutting tools to support fabrication programs at Convair. They work hard at maintaining a high standard of quality. Three Quality Circles are active in the department. According to Walt Lifsey, director - Machine Shop, Cutter Support's dedication to quality and schedule is demonstrated by a 100% rise in productivity over the last 12 months. Here's the conclusion of the Cutter Support tour.

A.



Announcing 22-Week T&O Planning Class

Tool and Operations Planning, in cooperation with Educational Services, announces the opportunity for Convair employees to become T&O planners. The requirements for this six-week classroom and 16-week on-the-job training program are very specific and include a strong desire to become a planner, a college degree (or near completion), a general math background, and blueprint reading experience. Applications, which are available at both KM and LF Educational Services offices, must be received by September 21. For more information, call Bob Rix, 39558.

Check Your Telephone

All telephones should have an in-plant emergency telephone number sticker. These are the numbers and your location for quick reference when reporting an emergency. Emergency number stickers are available through KM Division Distribution and Telecommunications or by calling 33333 or 26900.

SWE Meeting Open to All

Research psychologist Anne Hoiberg will be the guest speaker at the meeting of the

Society of Women Engineers San Diego Chapter on September 25 at 6:30 p.m. in the CRA conference room. Her topic will be "A NATO Symposium on Working Women." SWE members and nonmembers are welcome.

Opportunities from the NMACC

San Diego Zoo Tour. Take a behind-the-scenes tour of the San Diego Zoo, Saturday, September 29, at 9:00 a.m. The price is \$11.25 for adults and \$7.85 for children. Call Darlene Conway, 49293, for more details and reservations.

From the Health-Fitness Center

WORKOUT. Begins September 19, meets MWF, 4:30 p.m., CRA auditorium.

Rock A'Robics. Begins September 24, meets MTWTh, 4:30 p.m. CRA bandstand.

Psychology of Money. September 25, 5:00 - 6:00 p.m., CRA pavilion.

Mapping Your Financial Strategies. September 26 and 27, 5:00 - 6:15 p.m., CRA room A.

For more information or to register, call 39921.

Employment

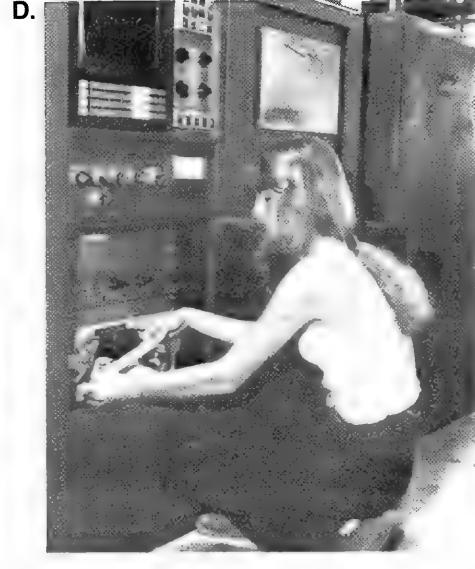
For the week ending September 7, employment was 11,693.



B.



C.

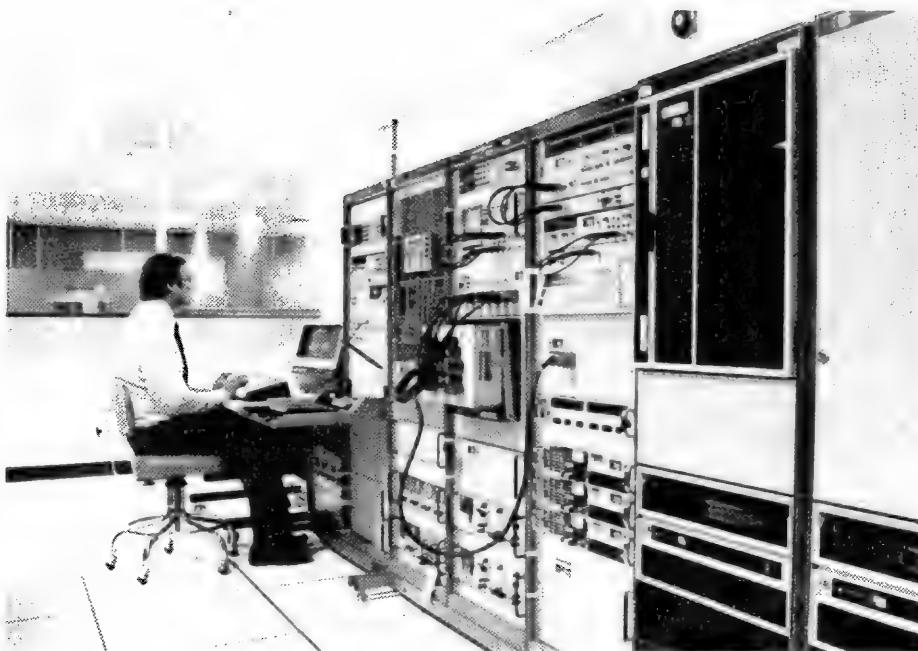


A. Dick Kirby is using a precision tool setter to preset NC tool holder and cutter assemblies to precise length and concentricity. **B.** Lou Wahl is a cutter support specialist who lends support in resolving tapping problems on NC equipment. **C.** Denise Ludwig and Tony Winston are operating a tool and cutter grinder to recondition standard cutters. They represent the second shift in Cutter Support. **D.** Kathy Durham operates three numerically controlled cutter grinders to recondition standard end mills.

CONVAIR Weekly Log

September 24, 1984

Published by the Convair Division of General Dynamics



This is the new computer-controlled test equipment used to check out the Atlas/Centaur and Shuttle/Centaur avionics modules and packages. The equipment has been successfully moved from Engineering Development in building 4 to building 27 at Kearny Mesa. The first compatibility tests are complete. Hats off to all who contributed to this milestone!

Extraordinary Achievement Award for Kimball



Lorraine Kimball (center), a financial specialist in Program Finance, received an Extraordinary Achievement Award recently for her outstanding performance in developing and maintaining key financial software programs for Advanced Programs. She also provides special software development support and training on a wide variety of other Convair systems and computers. Making the presentation were Dennis Coffey (left), manager - Program Finance, and Don Whisler, director - Program Financial Management.

SCUC Conference Exhibit Features Atlas

General Dynamics was one of more than 100 corporate exhibitors participating in the sixth annual Satellite Communications Users Conference held in the Superdome in New Orleans August 28-30. Our exhibit featured Atlas and included models of each Atlas version and illustrations of all the satellites launched by Atlas/Centaur. The message to potential users was that the Atlas family provides payload flexibility and on-time launch services to the commercial satellite user community. The conference was attended by satellite users and manufacturers, launch services agencies, and users and manufacturers of satellite ground systems.

Convair Hosts Joint Conference

On August 28, Convair's Small Business department hosted the regular meeting of the Joint Conference, an organization dedicated to increasing industry's use of minority- and women-owned businesses. Representatives from prime contractors

and government agencies attended, along with small business owners.

Don Berhow, small business liaison officer for Convair, opened the conference, which included presentations on current legislation and trade association resources available to small businesses. Joint Conference attendees toured the Atlas/Centaur production area at the conclusion of the conference.

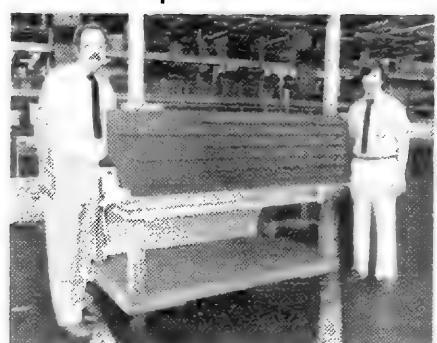
Blood Donors Can Still Sign Up

Convair and Western Center employees can still make appointments to donate blood next week. Active employee participation makes it possible to provide a no-charge replacement service to all employees and their eligible dependents and to meet a community need as well. T-shirts will be given to all donors.

Kearny Mesa, Fire Station, bldg. 6

- Call 33820 for appointment
- Oct. 1 and 2, 8:00 a.m. to 1:00 p.m.
- Lindbergh Field, Fire Station, bldg. 17**
- Call 28244 for appointment
- Oct. 3 and 4, 8:00 a.m. to 1:00 p.m.
- Plant 19, trailer outside bldg. 4 first aid station**
- Call 28244 for appointment
- Oct. 5, 8:00 a.m. to 4:45 p.m.

Last C-5A Spare Delivered



W.J. Bullock, chief - Aircraft Logistic Support, and Mike Osborne, supervisor - Logistic Stockroom, hold the last spare component to be manufactured by Convair in support of the C-5A Empennage program. Eighty-three horizontal and vertical stabilizers were produced by Convair under subcontract to Lockheed for the C-5A aircraft with production ending in 1972. Since that time, spares have been produced as required.

—OVER—

Machine Shop Quality Circle Project Improves Quality



Members of DX Terminators and their management. Front row (left to right): Betty Ahrens, Charles Miranda, and Dita Geraci. Back row: Bill Dickey, Operations general supervisor; Jose Orozco; Helen Hardy, Quality Circles facilitator; Andy Amandio; Howard Decker; George Kurtz; John Brumley, QC leader and Operations supervisor; and Walt Lifsey, director - Machine Shop.

The DX Terminators circle in the machine shop decided that realization and quality could be improved by revising the scope sheet in their area. They recently made a successful management presentation on their project.

A scope sheet is a work instruction aid that basically contains all the information needed to set up a job. In looking at the problem, the circle found that scope sheets lacked accountability, were out of date or incomplete, and lacked consistency. The circle analyzed the problem by keeping track of the time lost in cost center 015-03 because of the incomplete scope sheet. Then they designed a new scope sheet that incorporated relevant information with an accountability procedure that the old scope sheet lacked. Data collected after they started to use the new scope sheet showed a 20% reduction in quality deficiencies as well as a reduction in rework machining hours and manhours.

Walt Lifsey, director - Machine Shop, approved the DX Terminators' request for action to use the revised scope sheet throughout the department and also initiated action to approve it for use throughout the entire machine shop. He also requested that the circle give its presentation to all supervisors in Department 015.

August Retirees

Convair's thanks and best wishes go to these employees who retired in August.

Name (Dept.)	Years of Service
Herbert T. Armitage (193-0)	28
Sr. Accounting Analyst	28
Marie R. Brock (110-1)	29
Management Assistant	29
Donna A. Rousseau (131-3)	5
Sr. Security Officer	5
Bernace S. Colburn (668-0)	28
Secretary	28
Louis L. Forbes (190-1)	10
Sr. Accounting Analyst	10
Arthur E. France (352-0)	31
Engineering Inspector	31
Edmond A. Gooch (031-0)	33
Field Test Mechanic	33
Warren G. Hardy (953-0)	31
Program Engineering Manager	31
Frank A. Hess (658-0)	8
Senior Engineer	8
William C. Hovey (352-0)	27
Engineering Inspector	27

Edwin Lee (985-1)	12
Environmental Control Technician	12
Robert N. Moxley (015-0)	32
Group Leader	32
Conrad C. Nash (282-1)	31
Stockroom Requirement Analyst	31
Satoshi Okamoto (015-0)	29
NC Machine Machinist	29
Albert E. Ruark (606-0)	28
Sr. Configuration Mgmt. Specialist	28
Edward W. Stelmach (465-0)	43
Tooling Supervisor	43
Louis H. Turcot, Jr. (031-0)	27
Group Leader	27
Fred Wallace, Jr. (619-0)	33
Engineering Specialist	33

Professional Development from the NMACC

If you have trouble getting up in front of a group to speak, Convair's two Toastmaster clubs are offering a program called "Speechcraft" that can help you become a more effective speaker. The classes are open to all employees and cost \$12. Both

Speechcraft seminars will be held in the CRA clubhouse room C.

Convair Toastmasters' Speechcraft meets on Wednesdays, September 26 through November 14, from 5:00 to 7:00 p.m. Call Richard Hammett, 26875, to sign up.

Dynamics Toastmasters' Speechcraft meets on Thursdays, beginning October 4, from 5:00 to 7:00 p.m. Call Phil Boyle, 34639, or Mike Gruszczynski, 35241.

San Diego Zoo Tour. Take a behind-the-scenes tour of the San Diego Zoo, September 29, 9:00 a.m. Call Darlene Conway, 49293, for details and reservation.

General Dynamics Scholarships for College-Bound Students

Each year General Dynamics sponsors as many as four college scholarships for children of employees who have completed at least two years of continuous service by the end of the year before the scholarship awards. Last year, Convair had two of the four corporate winners: Bryan MacQuarrie, son of Aline McVicker in Technical Publications; and Valda Vitols, daughter of Hugh Kratz, Research & Engineering.

The first step in applying for the scholarship is for candidates to take the Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (PSAT/NMSQT) in their junior year of high school. This test is given each October at both public and independent schools, and students should make arrangements now with their school counselors to take the test.

The scholarship competition takes about a year and a half, from the qualifying test, through the semifinal and final stages, to the awarding of scholarships. The maximum amount awarded is \$3,000 per year and the minimum is \$1,000.

For a booklet explaining the entire program, call Educational Services, 39935.

From the Health-Fitness Center September is Financial Health Month

Rock A'Robics. Begins September 24, meets MTWTh, 4:30 p.m., CRA bandstand.

Psychology of Money. September 25, 5:00 - 6:00 p.m., CRA pavilion.

Mapping Your Financial Strategies. September 26 and 27, 5:00 - 6:15 p.m., CRA room A.

For more information or to register, call 39921.

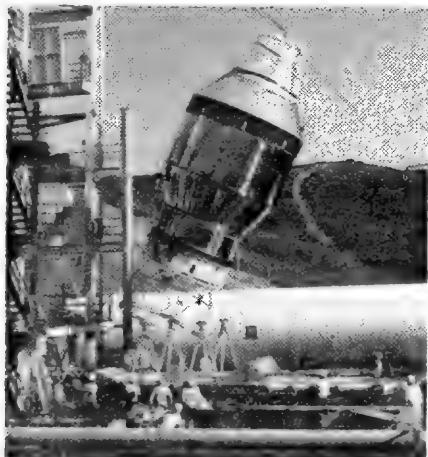
Employment

For the week ending September 14, employment was 11,672.

CONVAIR Weekly Log

October 1, 1984

Published by the Convair Division of General Dynamics



Shuttle/Centaur Test Vehicle Arrives at Sycamore Canyon Test Site. The Shuttle/Centaur program has passed another schedule milestone — the first Centaur G-Prime vehicle has arrived at Sycamore Canyon Test Site where it will undergo a series of design evaluation tests during the next six months, including cryogenic tanking, structural loading, and modal surveys.

Convair Hosts Propulsion Cost Meeting

On September 26 and 27 Contracts & Estimating hosted a meeting of the Joint Army-Navy-NASA-Air Force Propulsion Cost Subcommittee, a group concerned with reducing the cost of chemical propulsion systems. Government agencies, vehicle prime contractors, and propulsion subsystem contractors were represented. Attendees presented papers and then met as a working group to establish a scope of work for a parametric cost estimating methodology. Joint service funding will be sought to support the effort over a three-year period.

Atlas Launch a Success

Atlas 14E successfully launched the Global Positioning System (GPS) spacecraft, NAVSTAR 10, from Western Test Range into a 10,900-nautical-mile orbit on September 8. NAVSTAR 10 is the eleventh in a series of twelve missions scheduled for launch on the Atlas E space launch vehicle. The GPS system is a series of satellites that provide a space-based, long-life radio navigation system.

Atlas 14E was manufactured by Convair as an operational weapons system and delivered to the Air Force in the early 1960s. After years on operational status and then in storage, 14E was modified, refurbished, and delivered to the Air Force in 1984 as a space launch vehicle for the NAVSTAR 10 mission.

LF Note: Showers on building 4 mezzanine will be closed beginning Monday, October 1, for repair work that will last several weeks.

EXCEL Nominations Open for 1984 General Manager's Award

Each year the EXCEL committee helps to select the General Manager's award for Employee of the Year. Any supervisor may nominate an employee for this award — the highest in the division. Nomination considerations are exhibiting extraordinary leadership capabilities, displaying noteworthy innovation or creativity, reducing costs significantly, or making outstanding quality improvements. Recipients of EXCEL citation awards are automatically considered for the General Manager's award.

Nominations for the 1984 award must be in by October 26. If you have any questions, call Evelyn Cain at 39943.

Savings and Stock Plan Values for July 1984

	1982	1983	1984
Salaried			
Government Bonds	\$ 3.0351	\$ 3.4788	\$ 3.7715
Diversified Portfolio	1.8749	3.1727	2.9064
Fixed Income	1.3659	1.5295	1.7175
Hourly			
Government Bonds	3.0325	3.4768	3.7698
Diversified Portfolio	1.9129	3.2385	2.9520
GD Stock	\$29.5000	\$53.6250	\$53.0000

Blood Drive Begins Today

Remember Your Appointment

KM Fire Station — Bldg. 6 (call 33820)
Mon. & Tues., Oct. 1 & 2,
8:00 a.m.-1:00 p.m.

LF Fire Station, Bldg. 17 (28244)
Wed. & Thurs., Oct. 3 & 4,
8:00 a.m.-1:00 p.m.

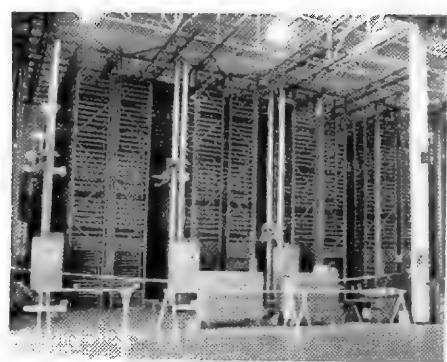
PI 19 — Trailer Outside Bldg. 4 (28244)
Fri., Oct. 5, 8:00 a.m.-4:45 p.m.

Pick up your "It Takes All Types" T-shirt when you donate.

AWS Update and Caution

Construction is complete on the racks for both the bulk and mini-load portions of the Automated Warehouse System located in the east end of building 5 at Kearny Mesa. Testing of the five cranes and conveyor systems began last week and will continue until system loading begins in December. The cranes (visible at varying heights in the photo) and conveyor are automatically controlled by computer and move on commands received from the control systems.

Note: The AWS area is roped off with yellow caution tape. Unauthorized people must stay out of the area to avoid possible hazard during testing.



New Location for NEO

On Monday, October 8, New Employee Orientation for Kearny Mesa employees will move from classroom 3 in building 17 to mockup conference room A in building 5 (southwest corner). NEO is held every Monday from 8:00 a.m. to 11:00 a.m. at Kearny Mesa. Lindbergh Field NEO classes are offered once a month: call Educational Services, 22362, for the next session.

—OVER—

People Notes

Henry Hyman, director - Productivity, has received a national American Red Cross Clara Barton Award for "meritorious volunteer leadership." Hyman serves on the Red Cross San Diego/Imperial counties Chapter Board of Directors and is a former member of the Board of Governors of the American National Red Cross.

Three Convair people participated in a workshop on bank-to-turn controlled terminal homing missiles at Johns Hopkins University Applied Physics Laboratory September 19 and 20: **Bob Kendrew**, chief - Cruise Missile Guidance and Control, presented a paper he authored along with **Leo Kaszas**, manager - Systems Performance, and **Gordon Place**, chief - Aerodynamics/Hydrodynamics. Kaszas represented Convair's Tomahawk on a special panel.

Security Tip

Here are a few reminders about the security procedures for hand-carrying classified material out of Convair facilities — a very important aspect of our DoD security program.

Get Approval. Security and Investigation approval is mandatory. You will be authorized to hand-carry classified material from Convair to your destination only.

Be Alert. Keep classified material in your possession at all times. You can't review it enroute.

Plan Ahead. If you have an overnight stopover, make arrangements well in advance to store classified material in an authorized facility. Hotel safes are not authorized, and you can't take classified material to your hotel room.

A



A. *Converting Space Programs to the new Master Parts List on-line system was a tremendous step forward in Convair's business systems capability that required a concerted team effort between Convair and Data Systems Division — Western Center. The MPL team was honored at a special recognition event at Lindbergh Field on September 25. Ken Lake, division vice president - Operations, and Paul Cofoni, director - Western Center, both expressed their thanks to everyone who worked so hard on the project and presented each person with an "I Survived the Space Conversion" T-shirt. The next big MPL milestone will be the Cruise Missile Program conversion.* **B.** *Ken Lake shows off special MPL commemorative T-shirts as Paul Cofoni (center) and Mike Beebe, manager - Business Systems Development for Western Center, look on.*

Employee Suggestions Information of Note

Third Quarter Drawing Soon. One lucky employee suggester will win a ski trip for two to Breckenridge, Colorado, in the upcoming third quarter drawing. Twenty-five names will be drawn this week from all suggestions sent in during the third quarter of 1984. It's all part of the "Good Ideas Are Everyone's Business" year-long promotion that awards prizes simply for sending in a suggestion. The 25 winners will be notified, and one name will be drawn for the ski trip at a special recognition event for the group the week of October 15.

Employee Suggestions Help for Lindbergh Field. To better serve Lindbergh Field employees, several E.S. analysts have moved permanently to building 1 to help employees write their suggestions and to meet with supervisors and evaluators. The office is just to the left of the Operations Administration area in building 1. The phone number of the Lindbergh Field Employee Suggestions office is 28293.

From the NMA Convair Chapter

"Convairsations with Management" sessions are open to all employees at no cost and are held from 4:30 to 6:30 p.m. at Kearny Mesa in the building 2 presentation room. Call Cynthia Vorndran, 25676, to sign up.

October 11. Augie Daddi, division vice president - Industrial Relations, "Leadership: Key to Human Resource Utilization."

October 18. Al Nelson, acting division

vice president - Program Development, "How Do We Get Our Contracts?"

Tours. La Jolla Cancer Research Foundation, Tuesday, October 9, or Wednesday, October 10, 5:00 p.m. Call Darlene Conway, 49293, for reservations.

From the Health-Fitness Center

Shape Up. Begins October 8. Harbor Island, 4:45 p.m., preregistration required. KM, 4:30 p.m., preregistration suggested.

Environment and Pregnancy. October 17, 4:45 p.m. CRA pavilion.

WORKOUT. Begins October 24, meets MWF, 4:30 p.m., CRA auditorium.

Managing as a Single Parent. October 23 and 30 (two sessions), 5:00 p.m., CRA clubhouse room A.

For more information or to register, call 39921.

Cyber Orientation Classes Continuing

Registrations are being accepted for ongoing classes in the effective use of the Cyber computer at Kearny Mesa. The 3 1/2-hour, one-session class is held every two weeks, when enough people sign up. The class is for new users interested in scientific programming who have some background in FORTRAN and computer applications, and who have some use for the computer in their work. Call the Cyber Advisor, Jack Wood, at 33979 for reservations and information.

Employment

For the week ending September 21, employment was 11,696.

B



CONVAIR Weekly Log

October 8, 1984

Published by the Convair Division of General Dynamics

Government Property System Recertified

Capping four years of effort by all functional organizations within Convair, certification of our Government Property Control System was restored by the Defense Contract Administration Service in ceremonies last Friday. Eleven different categories of property and control were surveyed and all were found satisfactory. According to Capt. John McKechnie, commander - DCASPRO General Dynamics, the reapproval of the property system was the result of dedicated effort and a spirit of cooperation between customer and government officials. General Manager John McSweeny added his personal thanks to all who dedicated themselves to the effort. At the DCAS ceremonies (left to right): Capt. John McKechnie (DCAS); John McSweeny, Ken Lake (Convair); Ed Jatzek (DCAS); Chuck Bohle, Bob Langsfeld, Bob McFarland (Convair); Ralph Craig (DCAS); and Rudy Molina (Convair).



San Diego Blood Bank Honors Two Convairites

Jack Appenzeller and Ray Esparza were honored recently by the San Diego Blood Bank for having given more than 10 gallons of blood during their lifetimes. The recognition ceremony took place during "Gallon Club Day at the Padres" hosted by Charlie and Harrigan of KCBQ radio.

Jack is a quality auditor at Lindbergh Field. He estimates that he has donated about 15 gallons of blood in his lifetime. Ray works in the development factory as a mockup mechanic. His lifetime total is over 11 gallons. Both men have been donating blood since 1948!

Blood donors become members of the Gallon Club after donating a total of at least eight pints of blood (each donation is one pint). Currently the San Diego Blood Bank has more than 15,000 members on the Gallon Club roster.

Both Jack and Ray agree that what motivates them to donate blood is simply wanting to help their community and their fellow man. They would like to see employees become more aware of how to give blood.

Thanks to people like Jack and Ray, Convair's two annual blood drives lead the way in supporting our community's needs.



This fall's blood drive got under way at Lindbergh Field on October 3. Gallon Club members Ray Esparza (left) and Jack Appenzeller discuss this year's drive with Helen Grant, Medical Services supervisor.

August Suggesters Share Good Ideas and Good Rewards

A total of \$25,218 was awarded to 107 employees who participated in the Employee Suggestion program in August. Here are

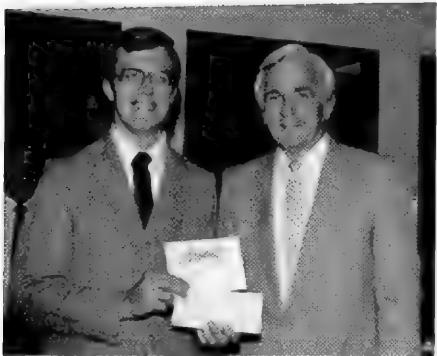
some of the award winners who had awards of \$200 or over.

Name (Dept.)	Amount (\$)
Herbert Armitage (193-1)	.950
Barbara Burnham (038)	.233
Peter Carrier (661)	.296
Bob Coons (330)	.288
Ed Denfendi (761)	.314
Rickey Devan (733)	.202
Richard Dugan (346)	.221
Ron Estrada (358)	.349
Janice Golem (019)	.1,872
Glenn Gruner (361)	.385
Henry Hall (038)	.222
Kenneth Hogan (224-6)	.288
Gary Klein-Wassink (810-4)	.10,000
Inez Ledesma (038)	.286
Robert McClinton (015)	.298
Roy Miller (460)	.375
Louis Miranda (358)	.336
Chris Pappas (759)	.546
Gerard Parmarten (664)	.418
Steward Strange (845)	.1,099
Frank Weller (225-3)	.1,384
Debra Wilson (362)	.318
Paul Wittman (633-5)	.366

Gary Klein-Wassink, a senior buyer in Procurement, received \$10,000—the maximum amount awarded under the Employee Suggestions program—for his pro-

posal to change the cruise missile launch tubes. The GLCM launch tube has to be 18 inches longer than SLCM's. Gary proposed that we roll and weld plate stock in 18-inch sections instead of cutting and machining sections from the bigger tubes as we had been doing.

This produced a large cost saving for Convair and a large award for Gary.



Gary Klein-Wassink (left), maximum Employee Suggestions award winner in August, and Russ Babcock, director-Procurement.

This Is Fire Prevention Week

Fire Prevention Week is an annual event designed to remind American citizens of the importance of fire safety. This year, National Fire Prevention Week is October 7 through 13. The Convair Fire Department encourages all employees to take this week to protect your home and work place from fire.

At Home:

- Install smoke detectors.
- Have at least one ABC-rated fire extinguisher (will put out all types of fires).
- Formulate a fire escape plan.

At Work:

- Maintain good housekeeping at all times.
- Use only approved safety containers when handling flammable or combustible liquids.
- Know the location and type of fire extinguishers in your work area. Be sure you know how to use them.

During the National Fire Safety Week, fire safety equipment, smoke detectors, fire extinguishers, life ladders, and safety cans will be on sale at the Lindbergh Field and Kearny Mesa fire stations at a discount to employees.

Value Engineering's Not Just for Engineers

Thirty-five students graduated from the latest Value Engineering workshop on September 28, representing nearly all the functional areas of the Convair organization. Students from Contracts & Estimat-

ing, Operations, Quality Assurance, Research & Engineering, Procurement, and Integrated Logistic Support attended the two-week workshop. During the session, students applied the value engineering principles they learned to real projects taken from current Convair programs— everything from a cabinet subassembly in the GLCM launch control center's work storage area to a door assembly on the forward nacelle of the Atlas thrust cylinder.

At the graduation ceremony, the eight teams made short presentations on their projects and received certificates from Dan Da Pra, division vice president-Research & Engineering, who urged them to take what they had learned back to the workplace and use it.

The next Value Engineering workshop will begin November 5. The half-day classes meet for two weeks. For more information, call Bill Frank, 38206.

From the NMA Convair Chapter

“Convairsations with Management” sessions are open to all employees at no cost and are held from 4:30 to 6:30 p.m. at Kearny Mesa in the building 2 presentation room. Call Cynthia Vorndran, 25676, to sign up. **October 11:** Augie Daddi, division vice president – Industrial Relations, “Leadership: Key to Human Resource Utilization.”

Dear Abby:

There is a rumor going around the plant that you will be the featured speaker at the October NMA Convair Chapter dinner meeting. Is it true?

—Curious at Convair

Dear Curious:

It's true! The dinner meeting will be held at the Town & Country Hotel on Thursday, October 25, beginning at 6:30 p.m. Plant Services is the sponsoring department and Bill Wise is the executive host. Be sure to buy your tickets early. The price is \$12.50 for NMA members and \$16 for nonmembers. After you have your tickets, call Ardelle at 33114 for table reservations. See you there!

—Abigail Van Buren
Syndicated Columnist

Nominations Open for EXCEL General Manager's Award

The EXCEL General Manager's award is the highest employee recognition award in the division. To be considered for nomination, an employee must exhibit extraordinary leadership capabilities, display noteworthy innovation, reduce costs significantly, or make outstanding quality improvements.

There are three categories of EXCEL awards: the group award, the certificate, and the citation. Recipients of EXCEL citation awards are automatically considered for the General Manager's award.

Nominations for the 1984 award must be submitted by October 26. Each year, the EXCEL committee helps to select the General Manager's award recipient. If you have any questions, call Evelyn Cain at 39943.

EXCEL working group committee members:

Research & Engineering	
Barbara Boganey	39462
Industrial Relations	
Evelyn Cain	39959
Industrial Engineering	
Earl Cantrell	26770
Program Development	
Richard Doubt	39787
Contracts & Estimating	
Jane Duby	35934
Plant Services	
Lance Elmstrom	35775
Quality Assurance	
Larry Harter	49208
Operations	
Jim McIntyre	38363
Manufacturing Engineering	
Buzz Prettyman	26633
Art & Editorial	
Bud Smith	34934
Integrated Logistic Support	
Roy Sommers	63355
DSD — Western Center	
Jody Turner	65106
Procurement	
Marge Vacca	28232

Security Tip

What is GDPI? It is either General Dynamics Private Information (data not including classified military information but nevertheless requiring controlled distribution and access) or General Dynamics Proprietary Information (technical information developed within the company containing trade secrets, manufacturing data, know-how, or designs). When you want to dispose of either kind of document, treat it the same as DoD-classified material. Take it to a classified document control station for disposal. Never throw it in a wastebasket!

From the Health-Fitness Center

Environment and Pregnancy. October 17, 4:45 p.m. CRA pavilion.

Managing as a Single Parent. October 23 and 30 (two sessions), 5:00 p.m., CRA clubhouse room A.

For more information or to register, call 39921.

Employment

For the week ending September 28, employment was 11,714.

CONVAIR Weekly Log

October 15, 1984

Published by the Convair Division of General Dynamics



Major construction is complete and testing will begin soon on the San Diego earth station for the Integrated Services Digital Network, the new General Dynamics satellite-based private long-distance communication system that will be operational next year. The network will eventually link all General Dynamics divisions with voice and high-speed data communication. Before testing begins, the fiber optics link will be completed between the building 4 control room and the dish. Then the dish will be aimed at Westar IV to test each circuit in the system through the satellite link. The earth station had to be placed in this particular location at Kearny Mesa to make use of buildings 1 and 26 as shields for the dish from nearby terrestrial microwave interference. The dish is over 30 feet in diameter and stands on a 15-foot pedestal. You can appreciate its size when you compare it to the two people working on its rim.

What's New in Facilities?

Here's a view of one of the laboratories in the new Imaging Guidance Laboratory recently completed in building 4 at Kearny Mesa. The facility, covering nearly 5,000 square feet, contains six separate laboratories designed with special safety and security systems that meet the latest government requirements to provide maximum security against unintentional radiation of data from computers and other processors. The laboratory is a key facility supporting advanced programs at Convair.



Our Mid-fuselage Supports Shuttle Program

Can you name the five orbiters in NASA's Space Shuttle fleet? If you can, you're either an expert in Trivial Pursuit or employed on our Orbiter Mid-fuselage program.

General Dynamics has been under contract since 1973 for design and manufacture of the payload bay for the Shuttle orbiter. So far, we have delivered five mid-fuselage structures to Rockwell, the prime contractor for the orbiter. The latest Shuttle flight carries the mid-fuselage originally built to be a test article, and later modified for orbital flight.

The challenge for Convair engineers in designing the mid-fuselage was to minimize weight in order to maximize payload, yet maintain structural strength and integrity. The structure interfaces with the orbiter's forward fuselage, aft fuselage, and wings. It also supports the payload bay doors, hinge fittings, forward wing glove

fairing, and various other orbiter system components as well as forming the payload bay area.

Can you also tell how many flights each orbiter has made? Answers are elsewhere in the *Weekly Log*.

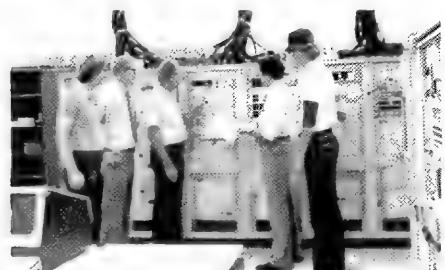
Cruise Missile

Test Operators Are Certified

Our Tomahawk cruise missile undergoes vigorous and extensive testing to make sure that every missile delivered to the customer will work as it is supposed to. The bank of equipment in the photo below is the Tomahawk Missile System Test Set, which is an integrated system of hardware and software that tests the antiship version of Tomahawk (BGM-109B). A related set of equipment is MATS — Missile Acceptance Test Set — for the land-attack version. Eventually, both will be combined into one test set to do final electrical acceptance testing of all cruise missile systems, from guidance and avionics to electrical and pyrotechnical.

When the TMSTS test operators hook up the missile and turn on the power, it is the first time electricity actually flows through the missile's systems. Each Tomahawk is tested a minimum of two times, both before and after environmental testing, to gauge the effect of temperature and vibration on the missile.

Cruise Missile Operations personnel in the photo above are looking over some test procedures with Mark Schwartzel, Educational Services training instructor for the Certified Test Operator program. By completing a series of courses, CTOs are specially qualified to run the automated test equipment in production areas. Left to right: Maurice Borders, Operations group leader; Tom Neitzel, Operations supervisor; Ed Adkisson, certified test operator; Mark Schwartzel; and Rick Reed, Operations missile mechanic.

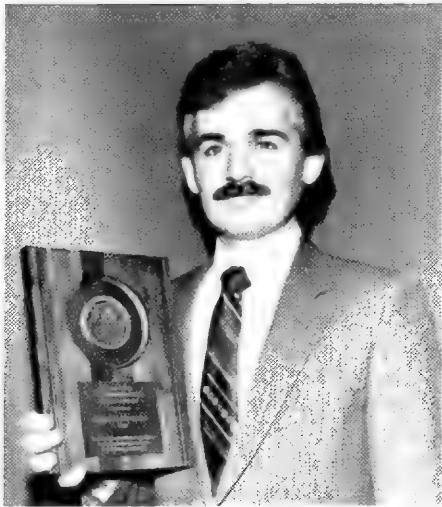


—OVER—

Congratulations to the October Operations Employees of the Month!



Truncale Awarded Outstanding Manufacturing Engineer Award



Joe Truncale, a Manufacturing Technology engineer in Department 473, was honored on October 1 by the Society of Manufacturing Engineers as one of twelve outstanding young manufacturing engineers nationwide for 1984. The award is made to recognize those who have made especially outstanding contributions to the society and the field of manufacturing engineering.

Joe's accomplishments came from his work on the Air Force's advanced metal removal initiatives program to investigate and implement additional applications of high-speed machining. During his work

on the program, he demonstrated a new application for high-speed machining in the Lindbergh Field machine shop. By mounting a high-speed spindle on an Omnimill machining center, machining time of a new cruise missile bulkhead was reduced by two-thirds. The use of this technology for manufacturing cruise missile body sections makes Convair an industry leader in high-speed machining.

Security Tip

Security combinations cannot be written down unless they are processed through a document control station and protected. If you have several combinations to remember, memorize one and list the rest on a separate document processed through document control. Keep that list in the container that has the combination you've memorized. Remember to contact the locksmith to change any overdue combinations—before the due date!

PLFCU Sponsors Tax Seminar

Point Loma Federal Credit Union members are invited to attend a free seminar on tax planning Wednesday, October 24, conducted by IRS tax experts. The seminar begins at 7:00 p.m. in the auditorium at Ocean Beach Elementary School, 4741 Santa Monica Avenue. Call 226-1600 to make a reservation or stop by a PLFCU branch office.

Each month, Operations staff members each select an employee of the month on the basis of job performance, quality work, attitude, and teamwork. Each winner receives a special parking space for the month and an EXCEL award. In addition, the group has lunch with Operations Division Vice President Ken Lake, which provides an opportunity to exchange ideas and concerns. Pictured above with Ken Lake (far left) and Dick Neal, Operations personnel liaison (far right), are the winners for October: Gordon Lundquist (Manufacturing Engineering), Sarah Leake (Operations Administration), Bob Collins (Plant Services), Lori Lakey (Manufacturing and Material Control), Brian Rhode (Fabrication and Tooling), Mary Ann D'Amico (Procurement), Lou Caudillo (Advanced Programs), and Dennis Holba (Aircraft). Missing are Virginia Pitts (Cruise Missile) and Mike Guay (Space and Energy Programs).

From the Health-Fitness Center

Environment and Pregnancy. October 17, 4:45 p.m. CRA pavilion.

WORKOUT. Begins October 24, meets MWF, 4:30 p.m., CRA auditorium.

Rock A' Robics. Begins October 29, 4:30 p.m. CRA bandstand.

Managing as a Single Parent. October 23 and 30 (two sessions), 5:00 p.m., CRA clubhouse room A.

For more information or to register, call 39921.

From the NMA Convair Chapter

"Convairsations with Management" sessions are open to all employees at no cost and are held from 4:30 to 6:30 p.m. at Kearny Mesa in the building 2 presentation room. Call Cynthia Vorndran, 25676, to sign up. **October 18.** Al Nelson, acting division vice president – Program Development, "How Do We Get Our Contracts?"

Employment

For the week ending October 5, employment was 11,726.

5. Alternatis. Still in final assembly at Rockwell.
4. Discovery. One flight.
3. Challenger. Six flights, including latest mission.
2. Columbia. Six flights.
1. Enterprise. No flights—used only in free-fall test.
7. Flights on top of Boeing 747 and in free-fall.
6. Answers to shuttle orbiter names.

CONVAIR Weekly Log

October 22, 1984

Published by the Convair Division of General Dynamics

NEW BADGES AT CONVAIR!

You'll soon be seeing new security identification badges on Convair Division employees, outside company representatives, and contract labor personnel. Although the new badges are somewhat similar in appearance to the old ones, they differ in function. They will virtually ensure that only authorized personnel are allowed in Convair facilities.

Why the Change?

Convair employees have worn badges since the earliest days of the company. Over the years, badges changed to meet growing security requirements. In the early 50s, they were round and metal-framed, with no photo or security clearance level. In 1961, black-and-white photos and security clearance levels were added. Color-coded laminate badges with color photos, currently in use, were introduced in 1978. With growing emphasis on security, it was time to use new technology to strengthen our access system. The new badge system is part of an overall plan to increase protection of our plant, people, and products.

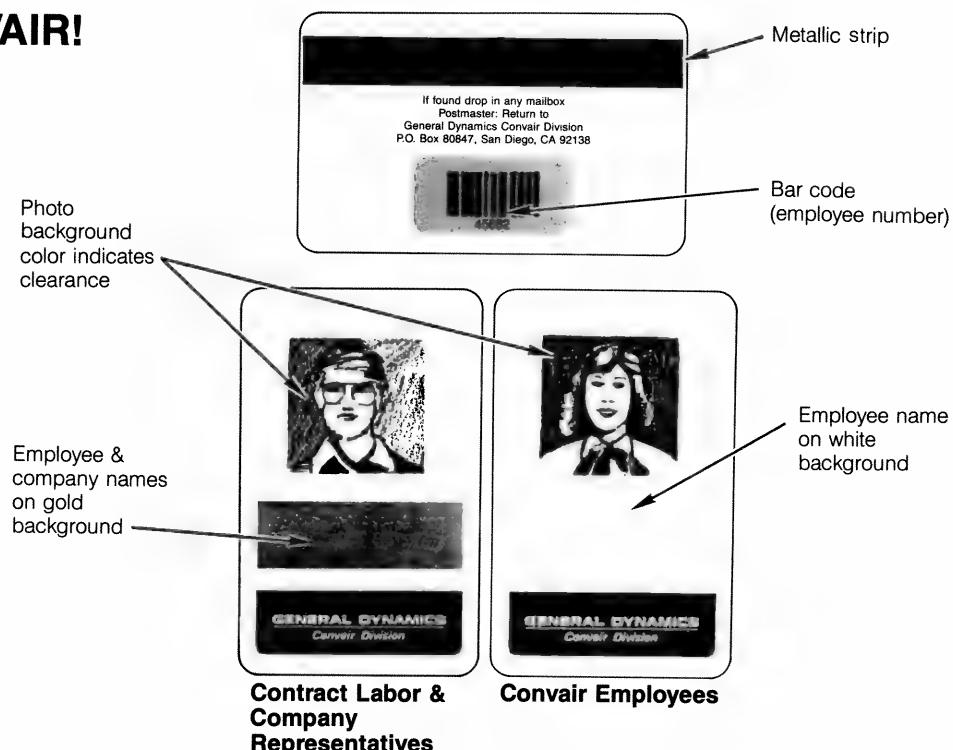
What Are the Differences?

Security and Investigation now uses eight types of badges to identify employees and visitors. When the new system is fully operational, only four types of badges will be used: two for employees and two for non-employees. The colors that designate security clearance levels will be used as the background in the color photos, instead of the current color bar alongside the photo.

You will no longer see red, blue, or yellow stripes or department numbers on badges. Visitor badges will remain the same.

How Will the Change Affect Me?

Each badge will have a high-energy magnetic strip on the back. That strip will contain the information necessary to allow you to enter Convair facilities through new automatic entry control systems. Your badge will verify that you are a Convair employee or other individual with authorization to enter the plant. You will not need to use your badge to leave the plant. Plant Protection officers will still be stationed at



all gates to help you if your badge is rejected by the system and to check parcels and containers.

What If I Forget My Badge?

If you forget your badge, the same procedure will continue to apply. Report to the guard stationed at your entrance. After your employment has been verified by your supervisor, you will be issued a temporary badge.

Report lost badges immediately to Security so that the screening system will reject your badge if anyone else tries to use it.

When Will the Change Begin?

New hires and people needing replacement badges will get new badges from now on. Automatic entry control systems are already being installed in selected areas within Lindbergh Field, Kearny Mesa and Lindbergh Field perimeters will be phased in next. The entire project is scheduled to be completed by the end of 1985.

Rebadging everyone at Convair is a large task. To make the changeover easier, Security plans to go to work areas to take new photos and complete necessary documents.

Security wants to start reminding you now: No pins whatsoever are allowed on the new badges. Pins damage the magnetic strip, rendering it useless on the new entry system.

Can the Badge Be Used in Other Ways?

Special access coding on the magnetic strip will allow entry into controlled areas, replacing cypher lock systems. Once inside special access areas, you may be required to wear special badges as you do now.

Along with the magnetic strip on the back of the badge, there will be a bar code (just like bar coding on grocery products) that represents your employee number. Bar coding applications are under study.

Is This System Really Practical?

The automatic entry control system meets a serious need at Convair for a more accurate control of people entering the facility so that we make sure only those who belong inside get inside.

According to Augie Daddi, division vice president-Industrial Relations, "Greater attention to the security of our plant, peo-

—OVER—

ple, and products is being stressed by our customer, management, and other employees. Systems such as our new badge and access system are an element in the security process. It takes all of us practicing necessary security controls to achieve the safeguards our nation and we need and expect."

October Is National Quality Month

To demonstrate the importance of quality in American industry, President Reagan in association with the American Society for Quality Control has proclaimed October National Quality Month. This focus on quality is the first of its kind in the United States and provides all sectors of business and industry the opportunity to rededicate themselves to the American tradition of "quality first."

Rose Darling, September Quality Assurance Employee of the Month, has worked as a quality inspector for many years. The *Weekly Log* asked her to share some of her thoughts on quality. "Compliance with work instructions results in product acceptance and good customer relations," said Rose.

"When I first began working at Convair, our goal was to build quality aircraft so that the lives of the people on board would not be jeopardized. Today, we continue that dedication to quality because in future Shuttle/Centaur missions our products will be associated with manned flights."

Rose was chosen to be QA Employee of the Month for her outstanding work on the Atlas/Centaur program. Cal Samuels, Quality Assurance Employee of the Month coordinator (left), and Tom Phillip, manager-Quality Engineering, were on hand to present Rose Darling with her award.



NMACC Announcements

October Membership Meeting. Abigail Van Buren, "Dear Abby," will be the featured speaker at the October 25 NMA Convair Chapter membership meeting. The event, sponsored by Plant Services

Savings and Stock Plan Values for August 1984

	1982	1983	1984
Salaried			
Government Bonds	\$ 3.1132	\$ 3.4905	\$ 3.8086
Diversified Portfolio	2.0660	3.1197	3.1938
Fixed Income	1.3786	1.5443	1.7345
Hourly			
Government Bonds	3.1113	3.4885	3.8070
Diversified Portfolio	2.1088	3.1840	3.2412
GD Stock	\$33.5000	\$47.7500	\$64.5000



Employees with 30 and 40 years of service were honored October 16 at a special breakfast hosted by General Manager John McSweeney. Each employee was presented with an individually selected service award and special thanks for many years of dedicated experience. Above (left to right): Ken Lake (staff), George Grande (35 years), Irene Hannibal (35), Arnold "Art" M. Lintvedt (40), Robert S. Mendoza (35), Rudy Molina (staff), and George Roos (staff).

and executive host Bill Wise, begins at 5:30 p.m. with dinner served at 6:30 p.m. Tickets are \$12.50 for members and \$16 for nonmembers. Call Ardelle at 33114 for your table reservations after you have your tickets.

Technology for Non-Engineers. Marty Winkler, director-Shuttle/Centaur program, will kick off the first of a series of presentations covering Convair's technological capabilities. Winkler's presentation on Shuttle/Centaur, and all presentations in the series, are aimed at non-engineers. Register with Bob Byron, 34552, for November 7, 4:45 p.m. at Kearny Mesa in the building 2 presentation room.

Maintenance Trouble Calls

Need maintenance help? Make sure your work orders have the right information.

- Identification number (also known as "E" number or "capital" number) for equipment and machinery (ID numbers are required for cranes and crane bridges).
- Location (include plant, building, floor, and column).
- Equipment name.
- Requestor's name, extension, and department number.
- Description of problem.



Marianne Campos, an inventory audit clerk in Department 190 at Lindbergh Field, and Convair photographer Pete Autio teamed up to remind everyone that Pacific Standard Time resumes at 2:00 a.m. on Sunday, October 28. Before you go to bed on Saturday, set your clock BACK one hour and enjoy that extra hour of sleep.

From the Health-Fitness Center

WORKOUT. October 24.

Rock A' Robics. October 29.

Managing as a Single Parent. October 23 and 30 (two sessions).

For more information or to register, call the Health-Fitness Center, 39921.

Employment

For the week ending October 12, employment was 11,746.

CONVAIR Weekly Log

November 5, 1984

Published by the Convair Division of General Dynamics

Sheridan Stretch Press Moved to Lindbergh Field

Early risers in San Diego driving in the Mission Valley area last Sunday might have seen a strange sight. That was the day the 500-ton Sheridan stretch press was moved from Kearny Mesa building 5 to Lindbergh Field building 3. Because the move had so many special requirements, it had to take place early in the morning when traffic was light.

The machine, which weighs 300 tons, was carried on ten dollies having eight wheels each and pulled by a one-of-a-kind tractor. The vehicle moved only at a walking pace, so the journey from Kearny Mesa to Lindbergh Field took nearly five hours. The rig could not travel either on or over state highways, which necessitated a roundabout route to Lindbergh Field on city streets. One of the biggest challenges of the move was to brake the entire rig going down the Washington Avenue and Mission Valley slopes. It took three tractor vehicles behind the rig to provide the necessary braking.

The machine was moved into building 3 at Lindbergh Field and will go through final installation during the next several weeks. This is the last — and the largest — move of nearly 600 machine moves at various plant locations over the last year and a half. It will be used to fabricate the skins for the KC-10 fuselage.

Thank You, Donors

Last month's blood drive brought 714 units of blood to the San Diego Blood Bank. Our total contributions of 1,444 units for 1984 once again surpasses our past records. Many thanks to all who donated and to the EMTs who do such a super job in scheduling and preparing the Fire Department areas for our drive.

All Convair employees may apply for blood units for themselves and eligible dependents. If you do use pints of blood, remember to bring your invoices from the Blood Bank to the Employee Benefits office or mail them in (MZ 50-1311) so that units from the Convair Reserve Fund can be credited against those units used. Before lining up donors to meet special needs, please let Employee Benefits or the Medical department know about your situation first.



Eighty-wheel rig carrying stretch press pulls out of Kearny Mesa plant at dawn.

For You & The USA

U.S. savings bonds are a winning investment for both you and the USA. Our country benefits from our continued participation in the savings bond program, and you benefit from the 10.94% interest paid on your investment. This year, you will also have a chance to win prizes in three different drawings: the pre-campaign drawing for those currently enrolled, the post-campaign drawing for new bond purchasers, and the overall drawing for all bond purchasers — both current and new. The campaign begins November 12. You'll receive all the information on how to buy bonds from your supervisor.

Drawing 1 (for those currently enrolled)
 Padre mini-season tickets
 Cruise for two to Ensenada
 Trip to Vandenberg to see
 Atlas launch
 2 \$100 bonds
 30 free cafeteria lunches

Drawing 2 (for new bond purchasers)
 Padre mini-season tickets
 Cruise for two to Ensenada
 Trip to Vandenberg to see
 Atlas launch
 2 \$100 bonds
 30 free cafeteria lunches

Overall Grand Prize (for all bond purchasers)

One trip for two (employee and guest) to Cape Canaveral, Florida, to attend a Space Shuttle launch and visit Disneyworld

—OVER—



Vern Gilson, a lathe machinist at Lindbergh Field, is congratulated by Helen Grant, left, and Debbie Syverson of the San Diego Blood Bank for his extraordinary contribution to Convair's 1984 blood drive. This year, Vern got 65 employees to donate blood. Syverson presented him with a recognition plaque and many thanks from the San Diego Blood Bank for his support.

Medical/Dental Open Enrollment

November is open enrollment month, which means you may change your medical or dental plans between November 5 and November 30. Enrollment information will be distributed to all eligible employees this week.

Medical and dental plan changes will be effective January 1, 1985. If you elect to continue your present medical and dental coverage, no action is necessary.

Received a Degree Lately?

Have you received a degree since you started working at Convair? If so, check with your home department to make sure that the degree is recorded in your department file as part of the MPR (master personnel record). If it is not recorded, please send a copy of your degree or final transcript to Professional Staffing, MZ 80-1342, Attention: Adrienne Neves.

People Notes

Dominic De Crescenzo, Data Management, and **Henry E. Zebick**, Maintainability Engineering, presented a paper at the October 10 International Congress on Technology and Technology Exchange on a system approach to personnel reassignment within a matrix organization.

ME and EE Information from SDSU

To provide information for engineers who are considering ME and EE graduate engineering programs, two professors from San Diego State University will be at the plant to answer questions. Here are the dates:

Wednesday, November 7
11:00 a.m. to 12:30 p.m.

Temporary classroom 2, SW corner building 5 at KM

Dr. Mao Shiu Lin, chairman and EE graduate advisor

Monday, November 12

10:00 to 10:45 a.m.

Temporary classroom 2, SW corner building 5 at KM

Dr. Jack Hoyt, ME graduate advisor

For additional information, call Steve Bascom, Educational Services, 39558.

Secretaries Sharpen Shorthand Skills

Pat Heincy and a group of management support personnel in building 26 are having something else besides sandwiches for lunch. Robin Trent, Diane Rodriguez, Gerry McFarland, Olivia Colton, Patsy Da Silva, and Olivia Hernandez are studying shorthand three days a week with Pat's help. Some of the women are working to obtain secretarial skills while others are brushing up on their shorthand skills. Anyone who has studied shorthand will testify to the difficulty of learning it well.

Have a nice day. That's "have a nice day" in shorthand.



Enjoying a working lunch are (left to right): Gerry McFarland, Diane Rodriguez, Robin Trent, Pat Heincy (standing), Olivia Hernandez, Patsy Da Silva, and Olivia Colton.

Eastern Test Range Annual Picnic Success

Hurricane Josephine headed north over Florida and left behind a beautiful weekend for the thirteenth annual employee-family picnic for over 500 employees, retirees, dependents, and guests at Eastern Test Range, Cape Canaveral, Florida. Picnic-goers enjoyed a barbecue menu, a bluegrass band, and games. Door prize winners were Vince Wassmuth, Benny Price, Greg High, Warren Holley, and Gerald Schmitz. There are 350 Convair people working at Eastern Test Range preparing and launching Atlas/Centaur and Shuttle/Centaur vehicles.

Apologies to Cliff Vaughan. Last week's photo of him getting his journeyman certificate was labeled with the wrong name.



Big Cash Awards to Dept. 028 Suggesters. Several good ideas for cruise missile capsule fabrication gained some healthy cash awards for suggesters. Tom Rivinius (left) and Louie Palestini (middle) shared a \$1,458 cash award for their idea to finish a component for the cruise missile capsule and sleeve by dipping it in a special solution rather than using a time-consuming sanding step. Jim Gillespie (right), a missile mechanic, earned \$2,029 for his idea to modify hole drilling procedures on cruise missile components and capsule.

NMACC Announcements

Technology for Non-Engineers. Marty Winkler, director-Shuttle/Centaur program, will kick off the first of a series of presentations covering Convair's technological capabilities. Winkler's presentation on Shuttle/Centaur, and all presentations in the series, are aimed at non-engineers. Register with Bob Byron, 34552, for November 7, 4:45 p.m. at Kearny Mesa in the building 2 presentation room.

Plane Memories of Early Convair Days. Retired Convair engineer Ken Jackman will present a 90-minute look at Convair aircraft from 1932 to the present. The date is November 8, and the presentation will be held in the building 2 presentation room at Kearny Mesa beginning at 4:30 p.m. Call Cynthia Vorndran, 25676, to register.

Tour. Tour the Bernardo Winery on Saturday, November 10, at 11:00 p.m. For reservations and more information, call Darlene Conway, 49293.

From the Health-Fitness Center

Fit Stop. November 7 through December 12, Wednesdays, 11:30 a.m. to 1:00 p.m. Free blood pressure checks and health information to be offered by the HFC in front of the Kearny Mesa employee dining room.

Stressless. Two free stress management lectures, November 12 and 19, 11:30 a.m., Kearny Mesa building 1, Marketing conference room. Preregister before November 9.

For more information or to register, call the Health-Fitness Center, 39921.

Employment

For the week ending October 26, employment was 11,789.

CONVAIR Weekly Log

November 12, 1984

Published by the Convair Division of General Dynamics

Convair Team Completes Mockup

The current issue of *GD World* tells about our Space Station proposal efforts and describes the General Dynamics/Grumman aerospace team working on the preliminary design of Space Station modules to be used for habitation, science, experiments, and materials processing in space. NASA's goal is to establish a permanent manned station in space by 1992. William F. Rector III, division vice president and program director - Space Station, is leading the proposal effort.

A diverse team of Convair employees have completed a full-scale mockup of the module in Kearny Mesa building 5. The team included people from Preproduction & Mockup, Paint & Processing, Engineering, Program Development, Art & Editorial, Facilities, Purchasing, and the proposal team. Design and fabrication of the mockup were completed in less than one month to meet immediate needs for the proposal effort.

**Astronaut Ron Evans
November NMACC Speaker**

Apollo 17 command module pilot Captain Ron Evans will be the featured speaker at the NMA Convair Chapter dinner meeting November 14. Captain Evans will tell us about space flight and how quality control ensured successful Apollo missions. Because the presentation will be of interest to both young and old, children 12 and over are invited to attend. The meeting will be held at the Mission Bay Hilton and sponsored by Data Systems Division - Western Center with Paul Cofoni as executive host. Call Neil Stiles, 66552, for reservations and further information.

Security Tip

Here are a few reminders about the security procedures for hand-carrying classified material out of Convair facilities — a very important aspect of our DoD security program.

Plan Ahead. If you have an overnight stopover, arrangements must be made in advance to store classified material in an authorized facility. Security will assist you in identifying suitable facilities. Hotel safes are not authorized, and you cannot take classified material to your hotel room.

(Cont. on back)



(Left to right): Bill Rector, Otto Steinbronn, Don Farthing, Don Charhut, and Sid Jones — all part of the Space Station proposal team — stand in front of the full-scale Space Station mockup.

Astronauts-for-a-day checking out the mockup Space Station interior (from left): Dennis Bridgman, Lori Messana, Ray Gorski, and Mike Simon.



—OVER—

Get Approval. Security and Investigation approval is mandatory. You will be authorized to hand-carry classified material from Convair to your destination only.

Be Alert. Keep classified material in your possession at all times. It must remain in sealed wrapping, and therefore you can't review it en-route.

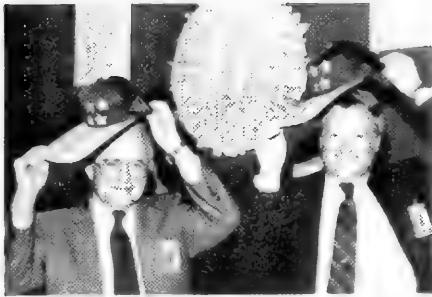
Here's an example of the potential earnings on a \$6.25 monthly investment in Series EE bonds through the Convair payroll savings plan, based on the guaranteed 7.5% interest rate.

• In one year, you will have accrued \$75.94

• After five years, \$434.70

• After ten years, \$1,074.00

Bonds issued on or after November 1, 1982, and held at least five years, earn variable market-based interest rates (currently 10.94%), but never less than the minimum guaranteed rate of 7.5%. Bonds held less than five years earn interest on a fixed, graduated scale.



Dr. Alan Lovelace, vice president - Space Programs, and Bill Rector show off the hats that department coordinators will wear during the savings bond campaign.

Short-Term Auto Rentals

New auto rental agreements were recently negotiated with Ladki International Rent-A-Car and Ajax Rent-A-Car for auto rentals originating in San Diego. Once you receive travel orders specifying "rental of automobile required at duty station," and it is approved by appropriate management, phone either of these firms to arrange for your rental car.

Ladki International	Ajax Rent-A-Car
929 West Laurel	1566 Kettner Blvd.
San Diego 92101	San Diego 92101
233-9333	232-3191
Mon. - Fri.:	Mon. - Fri.:
6:30 a.m.	7:00 a.m.
to 11:00 p.m.	to 10:00 p.m.

In the event these firms are unable to meet your requirements, Budget Rent-A-Car is an alternate source.

Employment

For the week ending November 2, employment was 11,815, a new 1984 high.

Six Winners in the U.S. Savings Bond Pre-Campaign Drawing

These six employees were surprised last Thursday to find out that they had won prizes in the 1984 U.S. savings bond pre-campaign drawing. Their names were drawn from all Convair and Western Center employees who buy bonds through the payroll deduction program. The winners are (clockwise from top left):

• James Stewart, Dept. 460 — Two Padres mini-season tickets for the 1985 season

• Francisco Noriega, Dept. 250-2 — A trip to Vandenberg Air Force Base to see an Atlas launch

• Gladys Speed, Dept. 100-2 — 30 free cafeteria lunches

• Leonardo Berba, Jr., Dept. 038 — \$100 savings bond

• Jonathan Barr, Dept. 616 — \$100 savings bond

• Mercedes Russell, Western Center, Dept. 554 — A day cruise for two to Ensenada

Another drawing with duplicate prizes will be held after the campaign ends for those who purchase bonds during the week of November 12 - 16.

There will be a grand prize drawing for both current and new bond purchasers. The prize: A trip to Cape Canaveral, Florida, to see a Space Shuttle launch and to visit Disneyworld.



CONVAIR **Weekly Log**

November 19, 1984

*Published by the Convair Division of General Dynamics***Lindbergh Field Cogeneration Plant Pioneers Energy Conservation Program**

Conservation and cost savings are the hallmarks of the new cogeneration plant at Lindbergh Field, which became operational September 27. The new plant will run around the clock, seven days a week, until 1987, when it undergoes an overhaul.

Cogeneration is the simultaneous production of electricity and processed heat steam from a single source of fuel.

Before cogeneration, we purchased all electricity for Lindbergh Field and purchased natural gas to fire the boilers in our heating plant to provide steam. Needless to say, the two separate monthly utility bills from SDG&E were enormous.

Now the natural gas we buy from SDG&E is used in the cogeneration plant to get both electricity and steam rather than just steam. We will be able to produce 30% of our own electricity for Lindbergh Field, relying on SDG&E for the rest.

The entire cogeneration process is much more efficient because waste is virtually eliminated. The waste heat boiler, attached to the cogeneration power plant, uses exhaust gas heat from a jet engine and a duct burner to make all our steam.

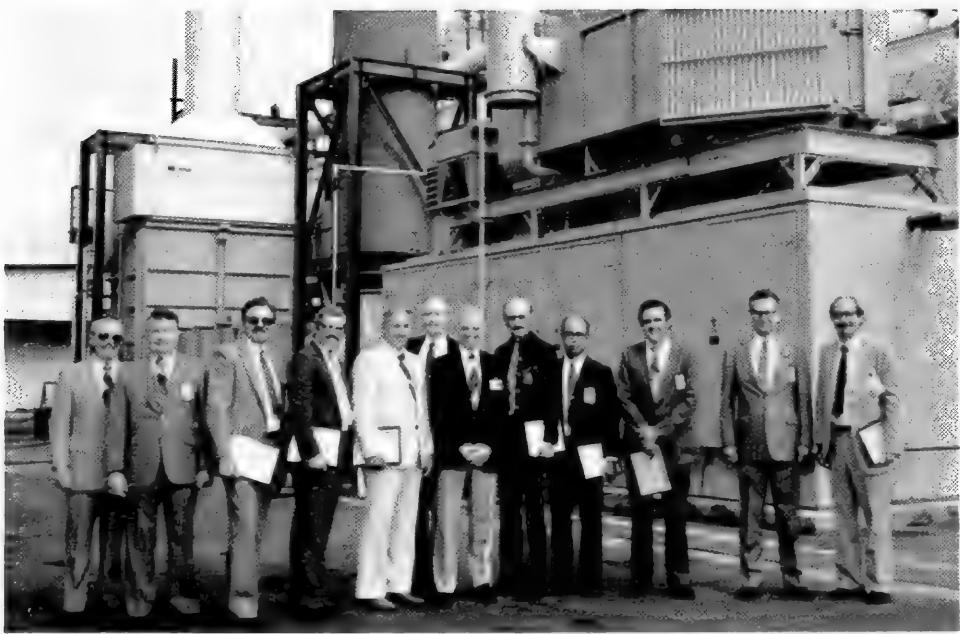
The cogeneration plant combusts the natural gas to make electricity, then adds more natural gas to the jet engine exhaust and combusts it again. It means that the plant burns at a 98% efficiency in contrast to a typical boiler, which runs at about 50% efficiency.

Convair's cogeneration plant is the first of its kind in the corporation. Savings are projected at \$2.9 million per year.

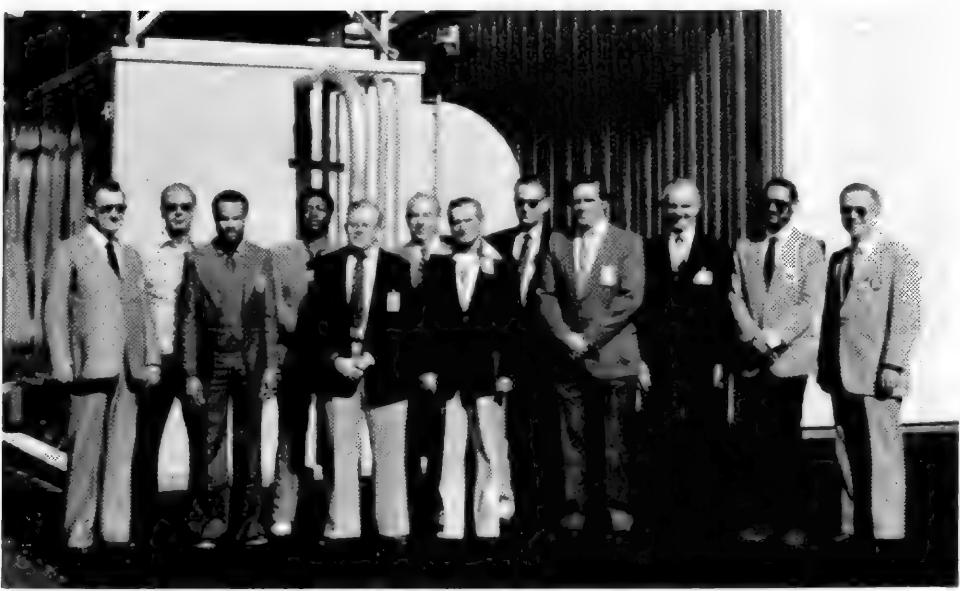
Related Notice

The San Diego Chapter of the Association of Energy Engineers presented Convair with the Corporate Energy Management Award at the Energy Expo 84 ceremony in October. The award recognizes our long-standing commitment to energy conservation and a willingness to innovate through computerized energy management systems, energy efficient lighting, skylights, and the cogeneration plant.

The photos are of the two classes of Convair Plant Services personnel who attended special training to become cogeneration system operators. The cogeneration plant is in the background.



(Left to right): Jim Macoubrey, energy conservation administrator; Danny Belchamber, general supervisor – second shift Maintenance; Dick Olpin, stationary engineer; Dick Feller, stationary engineer; Tom Perry, stationary engineer; Bill Wise, director – Plant Services; Jim Miller, Solar Turbines instructor; Wayne Eisner, stationary engineer; Cal Calienta, stationary engineer; Ken McDaniel, supervisor – Boiler and Power Plant; Dick Leonard, chief – Maintenance; and Bob Helt, project engineer – Cogeneration.



(Left to right): Roy Wells, stationary engineer; Billy Joe Turner, electrician; Phil Hewitt, stationary engineer; Mike Floyd, stationary engineer; Earl Coleman, electrician; Don Armstrong, stationary engineer; Ernie Butler, stationary engineer; Dick Leonard; Ken McDaniel; Jim Miller; Ed Monoya, electrician; and Jim Macoubrey.

Hotel Del Christmas Dance Just Weeks Away

Saturday evening, December 8, the Grand Ballroom at the Hotel Del Coronado will once again be the scene of the annual NMA Convair Chapter Christmas Dinner Dance sponsored by Industrial Relations with Augie Daddi as executive host. Tickets are now on sale for \$20 (members) and \$25 (nonmembers). The evening includes a prime rib dinner and dancing to the music of the Bill Green Orchestra. Get your tickets from your NMA booster; then call Jane Keaton, 28186, for table reservations. Table reservations will be held only three days and will not be confirmed until you send the bottom stub of the ticket to Jane at MZ 90-1314.

Many of those who attend the dance choose to stay overnight at the Del. Because of the tremendous request for rooms this year, the Hotel Del is already fully booked the weekend of December 7 and 8. The Glorietta Bay Hotel, across the street from the Del, has provided 15 rooms at a price of \$58 (double occupancy). Deadline for reservations at Glorietta Bay is November 28. Rooms available to dance attendees are being held for both December 7 and 8. When you call the hotel for a reservation, you must say you're with Convair to get the special rate.

Security Tip

Our DoD Security administrator reminds everyone with DoD security clearances that procedures for controlling and safeguarding classified information are critical mandatory security requirements.

- **When in use.** Classified information — Confidential, Secret or Top Secret — must be under the direct control of cleared, authorized employees at all times.
- **When not in use.** Classified material must be stored in locked authorized security containers when not in use — never in desk drawers or unauthorized storage containers.

Remember, when classified information is left unprotected in unlocked cabinets or desks, it is open to unauthorized access, placing the company and the responsible employee's security clearances in jeopardy.

Savings and Stock Plan Values for September 1984

	1982	1983	1984
Salaried			
Government Bonds	\$ 3.1786	\$ 3.5559	\$ 3.8474
Diversified Portfolio	2.1060	3.1968	3.1936
Fixed Income	1.3912	1.5588	1.7510
Hourly			
Government Bonds	3.1762	3.5541	3.8445
Diversified Portfolio	2.1497	3.2628	3.2388
GD Stock	\$32.5000	\$53.6250	\$60.7500

Huntsville Field Office Assignment Offered

President Reagan has committed the United States to the development of a manned low earth orbit Space Station, and NASA has been chartered to accomplish this goal within a decade. This represents an important business opportunity for Convair Division. Convair will establish a field liaison office near NASA's Marshall Space Flight Center in Huntsville, Alabama, by January 1985.

William Rector III, division vice president — Space Station programs, has an immediate need to identify candidates to staff the Huntsville office. The staff will consist of a manager — Convair Huntsville office; two senior engineering specialists — advance technology and systems integration; a program control specialist; and a marketing manager. These positions offer a two-year or longer assignment involving relocation to the Huntsville area.

If you are interested, call Lee Kelley of Professional Staffing, 39514, for further information or submit an application through the Professional Enhancement Program (PEP) process.

Configuration Management Overview

Configuration Management is a management discipline that is applied to virtually all projects at Convair. It is one key to new product development and production.

Configuration Management provides techniques for managing the functional and physical characteristics of a product, and it also addresses preparation and control of documents that describe a product's configuration.

If you would like to learn more about Configuration Management and overall Engineering operations, call Gerry Smith, 38765, or Tom Samaras, 39412, for information on available courses.

NMACC Professional Development First-Line Supervisor Course No. 3.

Communication Skills. Starts Thursday, November 19, 4:30 to 6:30 p.m. Meets in LF building 1, Finance conference room A, south mezzanine, col. J-9. Call facilitator Judy Gallup, 27791, for details.

Technology for Non-Engineers. Tuesday, December 4, 4:45 p.m. Kearny Mesa, building 2, presentation room. The subject will be "Centaur Structure." Call Norma Morgan, 39936, for details and reservations.

Reminder from Employee Benefits

Open enrollment for changing medical and/or dental coverage plans ends November 30. To change from one plan to another, you must contact Employee Benefits offices during the following hours:

- Kearny Mesa, 7:00 to 7:30 a.m. and 11:00 a.m. to 4:00 p.m. Monday through Friday.
- Lindbergh Field, 7:00 to 8:00 a.m. and 12:30 to 3:45 p.m. Monday through Friday.

Plan changes will be effective January 1, 1985. If you elect to continue your present medical and dental plans, no action is necessary.

Tuition Reimbursements

Congress has restored the tax-free status of employer-paid tuition aid retroactive to January 1, 1984. Any federal income and FICA taxes withheld from tuition reimbursements will be refunded to employees. State income taxes withheld based on federal income tax treatment will also be refunded. Payroll is now preparing refunds for those who had taxes (federal, FICA, etc) withheld. The refunds will be included in the next paycheck.

From the Health-Fitness Center

Weight Loss Contest. Introduction, November 16; weigh-in November 19.

Fit Stop. November 7 through December 12, Wednesdays, 11:30 a.m. to 1:00 p.m. Free blood pressure checks and health information to be offered by the HFC in front of the Kearny Mesa employee dining room.

Stressless. Free stress management lecture, November 19, 11:30 a.m., Kearny Mesa building 1, Marketing conference room.

For more information or to register, call the Health-Fitness Center, 39921.

Employment

For the week ending November 9, employment was 11,836.

For You & The USA

There's still time to participate in the U.S. savings bond drive. If you haven't already signed up, consider the fact that bonds are a better buy than ever before. You can now earn interest at 85% of the market-based rate (if you hold bonds five years or more), and never less than 7.5%! You could also win a trip to see a Space Shuttle launch and a visit to Disneyworld! See your supervisor or department coordinator for details.*

**All current and new participants eligible for drawing.*

CONVAIR Weekly Log

December 3, 1984

Published by the Convair Division of General Dynamics

Recognition for New General Dynamics Company



Dr. Merle J. Aleshire, program director – Small ICBM Hard Mobile Basing, recently presented a special recognition award to Richard E. Levy of General Dynamics El Paso Sand Products Company. El Paso Sand Products is a relatively new addition to the General Dynamics family. Levy and a team of his employees were recognized for their contribution to procurement, construction, and field testing of two mobility test vehicles in support of the Hard Mobile Basing program. The recognition award is a painting done by Roy Gjertson of Art & Editorial, which shows a hard mobile launcher in a desert setting.

The Hard Mobile Basing program is part of the strategic modernization program recommended in April 1983 by the President's Commission on Strategic Forces and approved by Congress last year. Convair will soon be competing for a full-scale development contract, which will include prototype design, fabrication, and testing.

December's Schedule Changes For New Employee Orientation

Lindbergh Field: NEO, usually held on the third Friday of the month, will be held Friday, December 14, at 7:45 a.m. in the building 14 auditorium.

Kearny Mesa: There will be no NEO at Kearny Mesa on Monday, December 10. NEO will be held on December 17 as usual at 8:00 a.m. in building 5 mockup conference room A.

TOMAHAWK SCOREBOARD

Tomahawk land attack missile-conventional (TLAM-C) T185 was successfully launched from USS *Houston* on November 10. The missile flew the inland route to the Tonopah Test Range in Nevada, where it impacted the simulated target area. The missile performed a successful terminal dive maneuver at the target, and the impact was well within predicted accuracy limits, meeting all flight objectives. The flight of T185 was the final development test before Tomahawk enters a combined development/operational test phase in the TLAM-C Block IIA program.

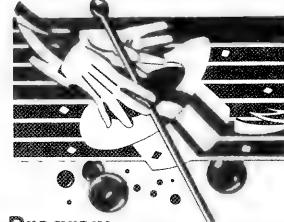
Team Recognition for Cruise Missile Quality Program



A team of Convair employees was honored recently for completing the flowdown of quality assurance provisions to ten cruise missile all-up round vendors. Their success helped Convair meet a critical contractual requirement and will result in a cost-effective improvement in the quality of subcontracted AUR components. Vern David, manager – Cruise Missile Quality Assurance, presented the group with an EXCEL award for their accomplishment.

Christmas Dance a Sellout

Tickets to the annual NMA Convair Chapter Christmas Dinner Dance sponsored by Industrial Relations are sold out. This year's event will be Saturday, December 8, in the Grand Ballroom of the Hotel Del Coronado. Dinner will be served at 7:30 p.m. There is offstreet parking near the hotel and fee parking at the hotel.



Pictured above from left to right: Vern David, Jeff Shacklette, Karl Miner, Rick Craig, Helen McCarthy, Max Treece, Phil West, Jim Paul, Paul Willis, Chris Shea, Don Zech, John Boyle, Doug Monick, Keith Lauer, Mark Perkins, and Bill Mack. Not pictured: Jim Hill, Chuck Marks, and Scott Williams. Frank Thompson, far right, is the program director for Cruise Missile Planning and Logistics.

—OVER—

October Operations Employees Honored



Each month, Operations staff members select an employee from their organizations. The winners attend a special luncheon hosted by Operations division vice president Ken Lake. The event is an occasion to "talk shop" as well as to recognize outstanding employee performance. October's honorees are (left to right) John Ascencio, representing Operations Administration; Ken Lake; Lois Acker, Advanced Programs; Peter Haney, Manufacturing Engineering; Joe Berardini, Aircraft; Dan Walters, Space/Energy Programs; Alex Rocha, Cruise Missile Program; Darrell Stinson, Procurement; Brian Weidenkeller, Manufacturing Material Control; and Martin Flores, Fabrication and Tooling. Not pictured: John Strachan, Plant Services.

Getting a Loan? Here's a Helpful Hint

You can help your loan application process by making sure you give the lending institution the correct mailing addresses for employment verifications. Clip and save these Convair and Western Center addresses for employment verification.

Employment Verification

Convair

Send hourly employee verifications to:
General Dynamics Convair Division
P.O. Box 85377
MZ 90-1352
San Diego, CA 92138

Send salaried employee verifications to:
General Dynamics Convair Division
P.O. Box 85357
MZ 11-1341
San Diego, CA 92138

DSD — Western Center

Data Systems Division verifications to:
General Dynamics DSD — WC
P.O. Box 85808
MZ VP-5150
San Diego, CA 92138

Value Engineering Graduates 33

Thirty-three Convair employees are ready to use the principles of value engineering in their work areas after completing a two-week workshop. Six project teams developed the potential for \$3.7 million net savings, an 80% average in cost reduction, through the projects they worked on during the workshop.

Bernie Kuchta, vice president and Tomahawk program chief engineer, and Capt. John McKechnie, Commander of DCASPRO — General Dynamics, spoke at the November 19 graduation and emphasized

sized the need for the value engineering effort here at Convair, stating that the joint efforts of government and industry in value engineering help to maintain the quality of our products and reduce costs.

The next value engineering workshop will be scheduled for the first quarter of 1985. The half-day classes meet for two weeks. For more information on value engineering, call Bill Frank, 38206.

Who Were Those Bond Poster People?

A group of sports enthusiasts who work at Convair helped support this year's U.S. savings bond campaign by appearing in the special poster. They are (left to right): Sherman Brown, Graphics & Repro; Marilyn Bosworth, Quality Assurance; Charlie Abatte, Engineering; Jerry Vale, Machine Shop; Devona Butler, Avionics Manufacturing & Test; and Theresa Merritt, Art & Editorial.



Security Tip

Requests for visitors to our facilities are only authorized for business-related matters and fall into two categories — classified and unclassified visits. To obtain au-

thorization for visitors who require access to classified information, have the visitor submit a Visit Request and Approval form to Visitor Control, MZ 16-1313. Visitor Control will in turn grant authorization for the visit. Unclassified visits are also arranged through Visitor Control but by the Convair host. Send your written request to Visitor Control and include your name, the visitor's name, and the date and purpose of the visit. You cannot use Visit Request and Approval forms for unclassified visit requests.

Opportunities In Procurement

In mid-February, a new training program will begin for entry-level salaried positions in the Procurement area. Preferred candidates should be present employees with college degrees. Full details about the positions will be carried in the PEP bulletin.

From the Health-Fitness Center

Fit Stop. November 7 through December 12, Wednesdays, 11:30 a.m. to 1:00 p.m. Free blood pressure checks and health information to be offered by the HFC in front of the Kearny Mesa employee dining room.

The third edition of the Great Talent Search employee referral program is drawing to a close. There is still time to submit referrals to qualify for the grand prize award. Referral cards and program rules are available in the major vending areas at all facilities. The fourth edition will premiere in early 1985. Watch for details.

Employment

For the week ending November 23, employment was 11,877.

CONVAIR Weekly Log

December 10, 1984

Published by the Convair Division of General Dynamics

Tomahawk AUR Production Team On Time for MOB Deployment*GLCM transporter erector launchers and launch control center awaiting delivery.*

The GLCM TEL/LCC team, consisting of employees from Convair production and support departments, with the help of JCMP and DCAS, successfully built, tested, and delivered the required assets for initial activation of Main Operating Base 3 in Europe. To meet that goal, Tomahawk AUR production delivered and shipped 16 GLCM missiles during November — a task that required long hours and many personal sacrifices by all members of the team. In doing so, the group set new records:

- The production team produced hardware at the highest rate ever demonstrated on the GLCM production line.
- The GSIL/Air Force Test Integration team not only accomplished the required testing, but also incorporated essential post-DD-250 modifications.

Congratulations to all members of the GLCM TEL/LCC team for a job well done.

Tomahawk Production Update: November Milestones. Production missile deliveries during November totaled 23 — the largest monthly delivery total achieved on the Tomahawk Production program. In addition to the 16 GLCMs for MOB 3, production deliveries included one GLCM to support an FOT&E flight test requirement, one SLCM flight test vehicle, and five SLCMs for operational deployment.

Security is Everyone's Job

Each Convair Division employee who holds a security clearance is responsible for protecting classified material.

- Classified material must be under the direct control of the user or locked in an authorized container at all times.
- "Need-to-know" must be verified before releasing classified information. Check with your security representative or supervisor.
- Challenge unauthorized personnel

who enter your working area when classified work is in progress.

- Process all incoming or outgoing classified material through your document control station.
- Mark classified information with the appropriate classification as it is generated.

Keep the security of classified information first and foremost in your mind at all times.

Improvement Scheduled for Lindbergh Field Over Holiday

During the Christmas holiday, the old roadway north and south of building 1 at Lindbergh Field will be cold-planed and the old rail track and ties removed. In addition, the Atlas test stand foundation north of building 33 will be removed and three inches of new asphalt laid over the existing roadway within the security fence. Areas east of building 4, east of building 8, and north of building 5 will be affected; so if you're inside the plant during that time, watch for caution signs.

October Retirees

Convair's appreciation and best wishes for a happy retirement go to these employees who retired in October.

Name (Dept.)	Years of Service
Helen Armstrong (358)	
Receiving Inspector - Electronics	22
Maude V. Atwood (431)	
Group Leader - T&O Planning	29
William B. DeMoss (979-1)	
Sr. Launch Service Mechanic	25
Thomas G. Feeney (225-2)	
Stock Clerk	32
Francis A. Gleason (473)	
Group Engineer	6
Earl S. Julian (015)	
Milling Machine Machinist	6
Harry R. Stone (633-4)	
Sr. Engineer	28
Virginia H. Vaughn (191-1)	
Accounting Technician	28

The next Weekly Log will be a special year-end issue published on Wednesday, December 19. Because of the holiday break, the first Weekly Log of 1985 will be published on Monday, January 14.

Quality Circle Team Work Pays Off

The P.E.R.T. quality circle (Production Engineering Reliability Team) was recently presented with a cash award through the Employee Suggestion program for improvements that have been implemented during the past two years in the planning departments. The \$6,000 award was presented to team members representing Manufacturing Engineering, Detail Planning, and Assembly Planning. In the photo right (left to right) are Jim Annis, director - Manufacturing Engineering (who presented the award); Henry Kordela, manufacturing engineer; Roy Jackson, planner; Jim Kelly, senior manufacturing engineer; John Caradonna, detail planner; Warren Moreno, assembly planner; Harold McDaniel, Operations supervisor; and Mike Short, acting chief - Assembly Planning. Not available for the photo: Jeannie Alexander, senior production planner.



Apprentice Graduates



One more Convair apprentice has completed the four-year apprenticeship program and has received his journeyman certificate. Rodolfo Coronel graduated from the apprenticeship program as a machinist and will be assigned to Department 015 as a jig bore machinist. Bill Dickey, Operations general supervisor, presented him with his certificate. Mrs. Coronel was invited as a special guest to the ceremony.

Two U.S. Patents Go to Convair Inventors

Barry Eng, Production Technology, and **Earl Christian**, Manufacturing Engineering, were recently granted U.S. Patent 4,476,654 for a machine that automatically smooths gear splines in a mechanism that erects cruise missile tail fins. **John Burgeson**, Advanced Design, and **Gary Kruse**, Systems Technology, received U.S. Patent 4,482,878 for an integrated conductor and coil structure for superconducting coils used in large superconducting magnets.

Employment

For the week ending November 30, employment was 11,905.

When reporting maintenance problems, call Maintenance **Dispatch** — not the Maintenance department.

LF	28575
PL19	26675
KM	38269

Congratulations to Kevin Davis (left), an engineering assistant in Department 672-1. He was awarded a \$750 leadership award and scholarship from National University. Ray Faller presented the award, which recognizes outstanding job performance, on behalf of the university. Davis is enrolled in the manufacturing engineering technology program at N.U. At Convair, he is responsible for computer tracking of cruise missile structures and design data.



Fall Suggesters Earn Awards

Good ideas brought some large cash awards for many suggesters during the fall months, including a maximum award of \$10,000 to G.F. Eggert for his suggestion to use a less expensive material for welding backup bars around the circumference of a Shuttle/Centaur tooling fixture. This fall's major award winners are:

Name	Amount(\$)
R.C. Bowers (311)	1,623
A.H. Brown (028)	2,097
R.V. Carino (351)	2,843
V.C. Cobb (269)	3,300
D. Cruz (028)	2,097
Jim Gillespie (028)	2,029
G.F. Eggert (455)	10,000
Pat Gonzales (028)	2,029
Terry Jagd (002)	2,800
Bob Kenehan (060)	3,550
Chris Powers (019)	1,409
James R. Riggan (422)	2,500
Debra Wilson (362)	1,078

1984 Suggesters: The last drawing of the year-long special promotion, "Good Ideas Are Everyone's Business," will be held in January.

From the Health-Fitness Center

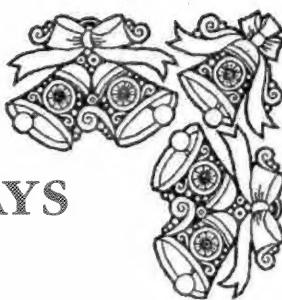
Fit Stop. Every Wednesday, 11:30 a.m. to 1:00 p.m., free blood pressure checks and health information to be offered by the HFC in the Kearny Mesa employee dining room.

For more information or to register, call the Health-Fitness Center, 39921.

CONVAIR **Weekly Log**

December 19, 1984

Published by the Convair Division of General Dynamics



HAPPY HOLIDAYS

To all Convair employees:

As we approach the holidays and the end of 1984, let's reflect on the year's accomplishments. It was a year of hard work, but thanks to the dedication and attention to quality from everyone, we successfully met our challenges.

This special year-end Weekly Log carries a strong message of achievement from all programs, both established and new, which is due largely to the individual efforts of all people who work here. For this effort, the division staff joins me in expressing a hearty thank you to each of you.

The close of a year is not an end. It's only a pause before we move on to new opportunities in the new year. During this pause, I wish you a happy and safe holiday with your family and friends.


John E. McSweeney



THE YEAR IN CRUISE MISSILE PROGRAMS

Dual Source Production: Deliveries Begin

For Convair, 1984 marked the beginning of Tomahawk cruise

missile guidance set production. As of December, we delivered FY82 contract requirements of five Tomahawk land-attack missile (TLAM) guidance sets and five Tomahawk antiship missile (TASM) guidance sets. We are in the process of manufacturing

22 additional guidance sets, which are scheduled for March 1985 delivery.

GLCM: IOC in Europe

1984 was another banner year for the Ground-Launched Cruise Missile program, following successful achievement of initial operational capability at Main Operating Base 1 in December 1983. IOC was also achieved at the second MOB in March 1984. The operational Air Force unit at MOB 3 was then established, and equipment deliveries began in August 1984 to pave the way for IOC early next year.

Convair Tomahawk all-up round production fully supported the aggressive deployment plan required for these activities by delivering 17 transporter erector launchers and 10 launch control center units while revamping the production line to support even higher delivery rates next year. In addition to the production people, GLCM System Integration Laboratory personnel and Integrated Logistic Support people all contributed to GLCM's successful year.

SLCM: On Target

The new year began with a busy SLCM flight test schedule and the successful vertical launch of T82:1 from an underwater platform off San Clemente Island. TASM and TLAM-N test flights from USS *Merrill* in the spring resulted in fleet introduction of both Tomahawk versions in June. Also in June, a spectacularly successful TLAM-C missile was launched from USS *La Jolla* and impacted a

target on San Clemente Island. Flight testing continued into late fall, with additional TLAM-C flights and the first test flight in the Atlantic off Puerto Rico with a TASM missile. In 1985, we plan even more SLCM test flights, including the first ship vertical launch system flight from a ship at sea.

CMAG: Joins the Team

Research on the cruise missile advanced guidance system continued in the spring of 1984, when the Air Force Aeronautical Systems awarded Convair a 42-month research and development contract. The result of more than four years of development effort, the CMAG program will design, fabricate, and flight-test a guidance system using laser radar and autonomous guidance processors. The CMAG system will eventually expand cruise missile mission effectiveness. Convair's task is to develop the laser radar, guidance processors, and software, which together will enhance missile navigation, precision terminal homing, and target classification.

Ladar Technology: A Plus for Cruise Missile Program

Convair was recently awarded a guidance development contract by United States Air Force Armament Division to design, develop, and flight-demonstrate a breadboard laser radar (ladar) seeker in our King Air 200 test aircraft. The 13-month Phase I study covers seeker design, followed by a competitive down-selection and an 18-month Phase II study to continue the project through development, integration, and flight testing. Convair's work with ladar technology will support the evolution of our cruise missile product line in the next decade.

General Dynamics Convair Division, Joint Cruise Missile Project, and DCASPRO recently focused a great deal of attention on the production and deployment of TELs and LCCs to Europe. The TEL and LCC deliveries in October, November, and December of this year help satisfy this nation's NATO commitment to deploy the GLCM weapon system. I am happy to report that, on December 11, 1984, we informed the Secretary of Defense, Mr. Weinberger, that due to Convair's recent intensive production effort, the critical European near-term deliveries were met.

I wish to express my appreciation to every Convair organization and individual who contributed to this important milestone. My special appreciation for a job well done goes to employees in the functional departments who supported fabrication, assembly, and test of the hardware.

Again, congratulations for a job well done!

S.J. Hostettler
Rear Admiral, U.S. Navy

THE YEAR IN SPACE PROGRAMS

Atlas: Old Reliable

Atlas chalked up another successful year in its long tradition of reliability with three Atlas E launches and one Atlas H launch from Vandenberg Air Force Base, California. The latest Atlas — 39E — successfully launched the Advanced TIROS-N spacecraft NOAA-F into a 470-nautical-mile sun-synchronous polar orbit on December 12. NOAA-F is the sixth in a series of eleven missions scheduled for launch on the Atlas.

Atlas/Centaur: The AC Team

Atlas/Centaur will have an unprecedented four launches from a single launch pad in 1985. With the current, firm, NASA-sponsored Atlas/Centaur launches scheduled to mid-1987, efforts are intensifying on follow-on commercial sales. The President has directed the government to encourage commercialization of expendable launch vehicles. That direction is paving the way for continued Atlas/Centaur sales and production opportunities through the 1990s.

Commercial Space: New Opportunities In Space

Commercial space activities geared up throughout 1984 as the government cleared the way for this new direction in the space marketplace. The Office of Commercial Space Transportation was created in February. It's a new agency of the Department of Transportation that will help streamline government licensing for commercial space users.

In May, a commercial space symposium held at Convair brought together potential customers of Atlas/Centaur, experts on commercial space financing and insurance, and technical and program members of the Convair team.

Convair has also participated in five major exhibits around the world to demonstrate to the user community that our expendable launch vehicles are commercially competitive with the American Space Transportation System (Shuttle) and with the French-built Ariane.

An agreement has been signed with Rainbow Satellite that will lead to a contract for two Atlas/Centaur launch vehicles, pending completion of terms and conditions.

Shuttle/Centaur: Going to Jupiter in '86

This year has seen us transition from design to test to manufacture of Centaur G-Prime, continuing with the design phase on the Centaur G. All preliminary and critical design reviews are complete. Flight hardware for Shuttle/Centaur-1 and -2 and Centaur Integrated Support System 1 and 2 is in work, with final assembly on SC-1 and CISS-1 on schedule for a January 1985 start. These first two wide-body Centaur vehicles will be part of the Galileo and Ulysses missions to Jupiter that will be launched within two weeks of each other in 1986.

New business is on the horizon for Shuttle/Centaur as well. Orders for three additional vehicles have been received, with future growth expected in the coming years.

Historical note:
September marked the 25th anniversary of the First Atlas launch — Atlas 12D — from Vandenberg.

SLV-X: New Centaur Business

Earlier in the year, General Dynamics submitted a proposal to the U.S. Air Force Space Division for development of a large expendable launch vehicle, Atlas L/Centaur. Additionally, proposals were submitted to Martin Marietta Aerospace for a Centaur stage to be integrated with their Titan booster and to NASA for a Centaur stage to be integrated with SRB-X booster. The Air Force has selected the Titan/Centaur to compete with the NASA SRB-X/Centaur. A decision is expected in mid-February on which booster system will be developed.

Space Station: New Frontiers

A manned Space Station in orbit around the earth is not just

science fiction any more. President Reagan has committed the United States to having a manned Space Station operational by 1992, and General Dynamics is competing in this newest space venture. Teamed with Grumman Aerospace and supported by Electric Boat Division and Data Systems Division, we submitted a proposal to Marshall Space Flight Center for development of the manned modules for the Space Station as well as logistics supply and accommodations for orbital transfer vehicles.

THE YEAR IN THE HML PROGRAM

HML: Full-Scale Development the Goal

1984 marked the real beginning for the SICBM Hard Mobile Basing program. After several years of studying the concept, we competed for and won a Concept Definition Phase contract from the Air Force Ballistic Missiles Office in February. As one of four winners in this phase, we have spent the year analyzing the mobility of a vehicle large enough to transport, erect, and launch a small ICBM and determining its hardness to blasts.

Major program accomplishments were building and testing two "mobility test rigs," which simulated the size and mobility characteristics of two candidate HML designs; participating in the government-sponsored shock tube tests at Sandia Laboratories; and building our own shock tube in Tracy, California. The HML proposal for the next program phase is now being evaluated by the Air Force. A decision is expected in January, at which time two winners will be selected to conduct a 21-month pre-full-scale development program.

THE YEAR IN THE SICBM PROGRAM

SICBM: Meets a National Need

Based on recommendations from the President's Commission on Strategic Forces and the Small Missile Independent Advisory Group, the Small ICBM (SICBM) program was formally identified in 1983 and is being pursued as a matter of the highest national priority. By December 1983, Convair had been awarded a competitive concept definition contract to define the SICBM weapon system for multiple-basing modes, with planned initial operating capability in 1992. To achieve that goal, weapon system studies and analyses have been conducted to define a variety of alternative mobile concepts and missile design, resulting in a recommended 30,000-pound, three-stage, solid-booster missile configuration.

During 1984, additional tasks were added to this contract to define the missile assembly, test, and system support (AT&SS) requirements for the pre-full-scale engineering development and full-scale development program phases through 1992.

In February 1985, Convair will submit a formal proposal for this AT&SS contract, with an Air Force award planned to a single contractor in May 1985.

THE YEAR IN AIRCRAFT PROGRAMS

KC-10/DC-10: Production Up

Convair bettered its 1983 KC-10 fuselage delivery record by sending nine fuselages to McDonnell Douglas this year. The fuselage delivered on December 11 was the first at an increased production rate of one per month, compared to the previous rate of one fuselage every

month and a half. McDonnell Douglas' current contract with the Air Force will require 26 additional fuselages, sustaining our production into 1987. The Department of Defense and the Congress will consider the production of additional KC-10s beyond those in the current contract in next year's budget review.

McDonnell Douglas has also ordered kits from Convair to be used to modify existing DC-10s to new configurations. They have placed orders for eleven kits to modify DC-10s to freighter configurations for Federal Express and two kits to modify cargo compartments for SAS.

Convair transferred 767 strut production to Boeing in 1984. Excellent support from many people made the transfer efficient for Convair and effective for Boeing, which was able to begin production without schedule slips.

THE YEAR IN ENERGY PROGRAMS

A Growing Business for Convair

Convair continues to lead the nation in the design and manufacture of large superconducting magnets. Throughout 1984, spectators have come from all over the world to observe production of the huge Mirror Fusion Test Facility (MFTF-B) magnets. This program resulted in the delivery of twelve 15-foot-diameter solenoids in 1983 and one 55-ton transition coil and two 34-ton axicell magnets in 1984. In early 1985, we will complete this program by delivering three more transition coils and two more axicell coils.

In March of this year, the Elmo Bumpy Torus program delivered the last of three magnets to the Oak Ridge National Laboratory. Following delivery, the magnet was tested successfully to full field at 7.4 tesla.

For the Production Magnet System (PMS II) program, 1984 was a year of design. Starting with go-ahead in January, the program completed its final design review milestone on schedule in mid-November. The PMS II magnet will be the largest magnet ever built in this country, having a stored energy of more than 500 million joules.

Efforts also continued in 1984 to develop advanced magnet technology for both mirror and Tokamak fusion magnets.

The newest thrust for 1984 has been our involvement in developing the superconducting super collider (SSC) accelerator. The SSC program will build a circular research accelerator in the United States that may be as large as 100 miles in circumference. The project will require literally thousands of magnets to "bend" the particles around the ring. One design concept calls for more than four thousand 60-foot-long dipole magnets. We currently have contracts with both the Texas Accelerator Center and the Lawrence Berkeley Laboratory to develop magnet components for the project.

One of the most noteworthy events in 1984 was the first test of magnets for the Large Coil program. The Convair large coil was delivered to the test facility in 1983; during 1984, our design, analysis, and fabrication efforts were rewarded by a successful test to full current.

THE YEAR IN FACILITIES

Increasing Convair's Capabilities

During 1984, we completed the colocation of people who work on the GLCM program. All support functions are now located on two fully refurbished mezzanines at AF Plant 19.

The 500-ton Sheridan stretch press, used to fabricate large KC-10 skins, was relocated from Kearny Mesa to Lindbergh Field. This move, the last of over 600 machine moves in the last several years, was accomplished in a single day on a weekend morning to avoid traffic along the route.

The automated warehouse system supporting cruise missile manufacturing is nearing completion in building 5 at Kearny Mesa. When complete, the system will be the first automated storage system in the division and will speed up operations in storage and retrieval of cruise missile parts.

The automated paint system was completed at Lindbergh Field during the year. The system completes the consolidation of aluminum processing and detail paint into the expanded building 75, providing a continuous flow of parts from processing through prime paint.

Additional accomplishments that greatly improve the division's capabilities include:

- Relocating cruise missile weld and postweld operations to Lindbergh Field.
- Establishing Shuttle/Centaur G-Prime and G production lines and test facilities at Kearny Mesa, Plant 19, and Sycamore Canyon.
- Activating the cogeneration plant at Lindbergh Field.

State of the Division

January 15 NMACC Meeting

General Manager John McSweeney will present his State of the Division address at the January 15 NMACC meeting. The meeting, traditionally a sellout, will be held at the Town & Country Hotel. Advanced Programs will be the sponsoring department, with Bill Vega as executive host. Tickets will be available beginning January 4 and will cost \$10 for NMACC members and \$15 for non-members.